

Remove the sandals from your feet...you are standing

On Holy Ground

Exodus 3:5



**An Ecological Vision
for Catholic Education
in Queensland**



Greetings From Bishop Christopher Toohey

It was cause for great satisfaction and gratitude, that many teachers and students in Catholic schools throughout the nation, wholeheartedly responded to the late Pope's call for an "ecological conversion". In the last few years, Catholic educators have initiated many varied and innovative ecological projects that have highlighted the need for all of us to live more sustainably, to leave a lighter "ecological footprint".

God created human beings in His own image as stewards and recipients of His wonderful handiwork. It was to this place that he sent his Son, the Word made flesh, to dwell amongst us.

Catholic educators have a critical role to play in promoting the Church's call to "ecological conversion" which finds its ground in our faith. We know God as Father, Son and the Holy Spirit, revealed to us in the Scriptures and finally through His Son. From Him all wisdom and holiness flows. Not long before he died, Pope John Paul II reminded us, that we are to take up our "ecological vocations, which in our time has become more urgent than ever."

In brief, this Ecological Vision document (together with the attached Environmental Audit CD-R) provides Catholic schools and colleges with a planned and logical pathway to journey towards more ecologically sustainable practices. As well as recognising the moral and spiritual dimensions, it makes good economic sense to carefully examine our use of water, energy and the potential for recycling and waste management.

Accordingly, I commend this Ecological Vision document and pray that all those good women and men involved in Catholic Education read and reflect upon the contents with great seriousness, and respond in a way that you consider most appropriate and beneficial, in your particular circumstances. We are called do this in love; for our children, their children and the generations to follow.

With every blessing and best wishes,

Yours in Christ,



Most Rev Christopher Toohey

Chair of Bishops' Commission for Justice & Service
Member Bishops' Commission for Education

contents

Greetings

Bishop Christopher Toohy

Prayers for the Environment

Prayer for Ecological Conversion
Prayer of Petition

Introduction

Reading the Signs of the Times

Part A: An Ecological Vision For Catholic Education

Definition of Ecological Education
Aims & Goals of the Ecological Vision
Objectives of the Ecological Vision
Ecological Principles for Catholic Education

Part B: A Catholic Context and Rationale

A Call from the Earth
A Call from Indigenous Australians
A Call from Science
A Biblical Call
A Call from Catholic Theology
A Eucharistic Call
A Papal Call
A Call for Justice
Answering the Calls
 In Love
 Working Towards Ecological Conversion
 Living Our Ecological Vocation as Co-Creators

Part C: Clarifying the Vision

Policy and Planning for Ecological Conversion
Sharpening the Focus:
 The Spiritual Dimension
 Curriculum
 Management of Resources
 Networking and Linking
 Management of Buildings and Grounds

Part D: Implementing the Vision

A Whole School Approach
Quality Teaching and Learning

Part E: Resourcing the Vision

Making Ecological Connections Diagram

Part F: Sustaining the Vision

Evaluating, Monitoring and Reporting
Staying in Touch

Appendices and Valuable Websites

Appendix 1: Steps in Becoming an Ecologically Active School
Appendix 2: One School's Ecological Pathway
Appendix 3: Websites & Resources Relevant to Ecological & Sustainability Education
Appendix 4: An Environmental Diary Calendar
Appendix 5: Examples of Ecologically Active Catholic Schools
Appendix 6: Personal Action for the Environment

Acknowledgments and References



prayers for the environment

Prayer for Ecological Conversion

God of the sun and the moon
Of the mountains, deserts and plains
God of the mighty oceans, of rivers, lakes and streams
God of all creatures that live in the seas and fly in the air
Of every living thing that grows and moves on this sacred Earth

We are formed by Christ into Your People
Called to Bring the world into Your marvellous light
As the Body of Christ, we are messengers of ecological vocation
We are entrusted with caring for this Earth which You have created

Help us to love and respect it
To repair what we have damaged
To care for what You have made good and holy
Give us the wisdom and the passion
To change our minds, our hearts and our ways

Let us be mustard seeds in our world
Bringing about ecological conversion which grows and spreads to
every corner of the Earth
For our sake now
And for every generation which is to come.
We ask this through Christ, Our Lord. Amen.



Prayer of Petition

Open to finding God in all creation, O God
Show us your goodness, O God

That we may see you revealed in the strength and protection of
the mountains, we praise you and say:
Show us your goodness, O God

That we may see you revealed in the rising sun of hope, the
midday heat and the setting sun of rest, we bless you and say:
Show us your goodness, O God

That we may see you revealed in life-giving rain and the majestic
arch of the rainbow, we hope in you and say:
Show us your goodness, O God

That we may see you revealed in rolling waves and crashing ocean,
we glorify you and say:
Show us your goodness, O God

That we may see you revealed in rising moon and star-filled nights,
we trust in you and say:
Show us your goodness, O God

That we may see you revealed in unfolding buds and vivid
rainforest colours, we thank you and say:
Show us your goodness, O God

That we may see you revealed in the myriad colours of our Reef, its
gracious lifeforms and diverse seascapes, we rejoice in you and say:
Show us your goodness, O God.





introduction

Australians live within one of the most diverse eco-systems on the planet - the “Land of the Holy Spirit”, as the first European maps recorded our ancient continent. Environmentally, it is important for us to “read the signs of the times” - “the signs of the Spirit”. We have been gifted with the care of this beautiful land and must hand it on to the next generation in a healthy and pristine condition. To carry out this sacred duty expresses our love for the Creator, each other and the rest of creation. This is sometimes called our “ecological vocation”.

Australians are global citizens, widely travelled and many with access to sophisticated technology, satellite and media information. We are well aware of the environmental crises enveloping the planet. We can read the signs.

Some commentators and scientists are saying that at the present rate of degradation our planet has a very limited future.

From around the world we are receiving scientific data, like the United Nations Eco-systems Reports (2005), that indicates that ecologically, so devastating has human impact been on Earth’s ecosystems that we have entered “terra incognita” (land unknown) - that is, a phase in the history of Earth’s evolution that “humans have never experienced before”.¹

Like much of the planet, our own country is deteriorating environmentally. There is incontrovertible evidence that our rivers, soil, land, air and oceans are in a worse state than twenty years ago.²

Scientists tell us that we are losing species (and biodiversity) at an exponential rate.³ Climate change is affecting us all.

The Federal Government’s State of the Environment Report indicates that shamefully we have the highest rate of greenhouse gas emissions per capita in the developed world.⁴

As Christians we are called, as a matter of urgency, to address this grim reality in the context of our living out our faith, and the biblical call to be good and wise custodians of creation and of God’s Earth.

The recently published Compendium of Social Doctrine of the Catholic Church reminds us that: “The common good of society is not an end in itself; it has value only in reference to attaining the ultimate ends of the person and the universal common good of the whole of creation”.⁵

So much of our Australian economy is dependent upon the use of fossil fuels. Economic rationalism and ‘market forces’ are driving our fossil-fuel economy to the detriment of the common good.

Pope John Paul II has reminded us that, “the environmental crisis is not merely a technical one but a moral one”, calling for radical changes “in lifestyle and unsustainable patterns of consumption and production”.

Our own Catholic Bishops, have been challenging us to read these signs for the last decade. In 2002, they established Catholic Earthcare Australia and published, for distribution throughout the whole church, “*A New Earth: The Environmental Challenge*” as their Social Justice Statement for that year.



For many years, numerous Catholic schools have taken their ecological responsibilities seriously, devising and implementing a range of environmental initiatives within the classroom and the school environs.

In order to address the need for a uniformed Ecological Vision for all Catholic schools in Queensland, Catholic Earthcare Australia has constructed, distributed and promoted this document.

Across Australia, and Queensland in particular, people are taking a stand on behalf of the environment. Schools have been amongst the forerunners. To assist the Australian Government has recently produced "Educating for a Sustainable Future" (2005) - a national environmental education statement.

Similarly, this Ecological Vision document will assist Catholic schools in Queensland to become more authentically sustainable from a faith perspective.

In the development of this document input was sought from experienced educators working in the Dioceses of Townsville, Brisbane, Rockhampton, Sydney, Broken Bay, Parramatta and Wollongong. It is now offered as an ecological model for all Catholic schools in Queensland wishing to respond to the Australian Catholic Bishops' call for 'ecological conversion'. It provides a theological, spiritual and practical base to

CD Rom

A CD ROM has been included with this document. It contains a very practical 'nuts and bolts' Environmental Audit especially developed for Catholic Schools, Parishes and Agencies, to assist in moving towards more ethical and sustainable practices.

many curricula especially the S.O.S.E. curriculum and R.E. curriculum employed by Queensland Catholic Schools.

While there is a need for environmental education in all sectors of the Australian community, this booklet will serve as a recommended tool for encouraging and assisting the Catholic community in learning to live more sustainably. In the process, it is hoped that young people discover the inexhaustible love of the Creator, through the teachings and example of Jesus Christ.

We must always remember that the future is not somewhere we are going it is something that each of us creates every day.⁷

As a people of faith we are today called to celebrate the splendour of God's creation, to be good stewards of Mother Earth and to safeguard the integrity of all creation.



an ecological vision for Catholic schools

Aims & Goals of the Ecological Vision

Definition of Ecological Education

Ecological Education is a life-long process of recognising values and clarifying concepts in order to develop skills and attitudes necessary to understand and appreciate the inter-relatedness of all creation; to know of creation as a gift from God which requires equitable sharing and wise stewardship. It also entails practice in decision making for living a life that is ecologically and ethically sustainable.

The long-term vision for Catholic ecological education is the embedding of ecological values into school programmes and practices.

This is critical for:

- promoting ecologically sustainable development
- improving the capacity of people to address environmental issues
- effective participation in decision-making
- living out one's ecological vocation

The goals within the Ecological Vision are:

- to foster in learners an appreciation of creation as a gift, their relationship with it and their responsibility as co-creators for its future;
- to develop in learners the knowledge, skills, attitudes, values and commitment to initiate individual and collective responses that are environmentally responsible and reflective of their ecological vocation;
- to inspire learners to decrease their ecological footprint and increase their spiritual one, as creatures made in the image and likeness for God.

Ecological education develops in people an understanding of their role in creation as co-creators and as members of a species with a profound capacity to affect other species and the ecosystems that support life on Earth.



Objectives of the Ecological Vision

Through direct contact with the environment and practice in ecological decision-making, learners develop through involvement in liturgy, prayer, social justice, scripture and study:

- a moral and spiritual response as stewards of the gift of creation
- an aesthetic appreciation of environments, both built and natural
- an understanding of the operation of natural systems and the impact of human activity on these systems
- recognition of the balance between protection and use of our environmental and natural resources
- skills for environmental investigation, including participation, critical analysis and evaluation:
- an informed sense of responsibility for the environment, particularly the local catchment
- a commitment to participate in environmental management and improvement:
- a preference for a personal lifestyle compatible with ecological sustainability.

Effective ecological education promotes the integration of a range of disciplines and the application of the knowledge and skills from across key learning areas, especially the Religious Education curriculum of each Diocese.

A balanced approach to the development of ecological education programmes considers the principles of democratic process, individual rights and responsibilities, equitable and ecologically sustainable development.

**“Look dear people of Australia,
and behold this vast continent of
yours! It is your home!**

**The place of your joys and pains,
your endeavours and your hopes!**

**And for all of you Australians, the
way to the Father’s house passes
through this land - Jesus Christ is
the way.”**

Pope John Paul II

Canberra, 29th November 1986



Ecological Principles for Catholic Education

The 1990 World Day of Peace Message of Pope John Paul II presented a comprehensive but concise overview of the spiritual and moral dimensions of ecological problems. From it can be drawn a set of principles for making ethical judgements about ecological issues.

- The natural world has value in itself and not merely for its use by humans.
- The world and all in it must be freed from what can be termed a state of suffering.
- Humans are part of the created world and inextricably part of a material existence.
- Earth belongs to God and is only on loan to humans who are called to care for it.
- Human choices in their use of the Earth gives humanity a hand in forming its history, a vocation to heightened consciousness within the life of Earth.
- Ecological education provides the background for wise and moral decisions.
- There are limits to world resources and the environmental services that Earth can meet before pushing it to a new epoch.
- Excessive demands are imposed on the Earth by nations with a consumerist economy and life-style.
- Restraint, penance and self-imposed limitations are part of authentic human living and are in the tradition of choosing sacrifice for the greater good.
- The right to a safe ecological environment is a universal human right.
- The fascinating beauty and intricacy deep in the natural world has great value for the artist and for healing the human spirit and body.
- Models of development, social structure and styles of technology must integrate environmental factors if there is to be authentic development.
- Super-development, often for the purpose of economic gain, poses an additional threat to the environment.
- Political leaders at every level have a duty to administer a nation for the good of all, including its environmental goods.
- The richer nations have an obligation to dismantle structural forms of global poverty and help poorer nations experiencing social or environmental problems.
- Future generations should not be robbed or left with extra burdens for they have a claim to a just administration of the world's resources by this generation.

(*Climate Change - Our Responsibility to Sustain God's Earth*, a Position Paper of the Bishops' Committee for Justice Development Ecology & Peace, Nov 2005, p11, presented at Catholic Earthcare Australia Conference, Canberra)





a Catholic context and rationale

God's whole creation is the context and concern of the mission of Christian people.

Of course, we must proclaim the Gospel, and nurture believers, and be a loving presence for the needy, and work to transform unjust structures of our society.

But today, our evangelisation needs to be expanded- to demonstrate authentic commitment to care for creation. We need to rediscover the great eco-traditions of our Church inspired by the teaching and example of Jesus Christ and lived out by his followers.

In July 2002, at the launch of Catholic Earthcare Australia, Archbishop John Bathersby stated, "The entire life of Christians is an exploration into Christ. Each generation pushes back ever so slightly the envelope of his mystery...One of the most significant developments in Catholic understanding of the Christian mission in more recent times is its embrace of creation in all its vitality and beauty and the need to educate people about the depth of vision demanded of those who would follow in Christ's footsteps."



Let everything that
breathes praise the Lord.

Psalm 150:6

Catholic educators are called to read the signs of the time, discern the movement of the Spirit, and to hear the cries of the suffering earth and its communities. These signs are being made clear through:



A Call From the Earth

“Looking outward to the blackness of space, sprinkled with glory of lights I saw majesty but no welcome.

Below was a welcoming planet. There contained in the thin, moving, incredibly fragile shell of the biosphere is everything that is dear to you, all human drama and comedy.

That’s where life is: that’s where all the good stuff is!”

Astronaut: Loren Acton



Earth

our common home

“The web of life on Earth is under threat from accelerated climate change. That web compares to a seamless garment and it needs the application of a consistent ethic to protect it, one that considers life now and in the future, and ranges from protection of the unborn child to cherishing the diversity of species. Life is one, and human well-being is at its base interwoven

with all life on Earth and the rhythm of its systems. The suffering of any one part means that all creation groans, and rapid global climate change dramatically displays that suffering.” (*Climate Change- Our Responsibility to Sustain God’s Earth*, a Position Paper of the Bishops’ Committee for Justice Development Ecology & Peace, November 2005, p7)

Measuring the Impact on the Planet

The Ecological Footprint (EF) is an example of how we can compare the consumption of renewable natural resources between groups of humans, be it a school, a country or the world.

The EF for the average African or Asian consumer was less than 1.4 hectares per person in 1999, the average Australian footprint was about 7.1 hectares, and for the average North American person the EF was about 9.6 hectares.

The EF of the average world consumer in 1999 was 2.3 hectares per person, or 20 per cent above the earth’s biological capacity of 1.9 hectares per person. In other words, humanity now exceeds the planet’s capacity to sustain its consumption of renewable resources.



Source: Ecological Footprint of Nations 2004, <http://www.redefiningprogress.org/publications/footprintnations2004.pdf>; WWF’s Living Planet Report <http://www.panda.org/livingplanet>

“Without land
we are nothing . . .
Without land we are
a lost people.”

Djon Mundine O.A.M.



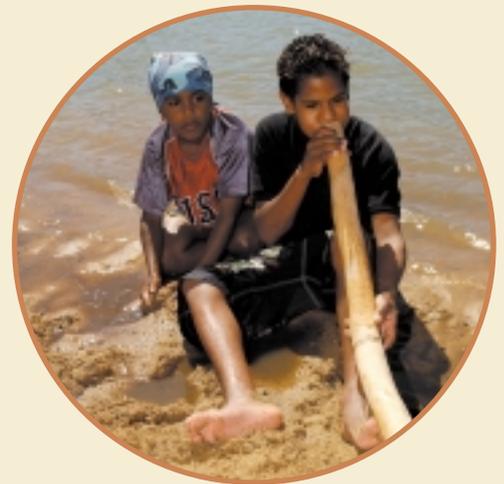
A Call From the Primary Custodians of Our Land

“My mother’s land can be dry and harsh. Yet every cluster of rocks, mountain, waterhole, river, cave is sacred - every feature.”

Maisie Cavanagh, 1998 Sydney

“These creatures, these great creatures are just as much alive today as they were in the beginning. They are everlasting and will never die. They are always part of the land and nature as we are. We cannot change nor can they. Our connection to all things natural is spiritual.”

Silas Roberts - Chair, Northern Land Council, 1977 Ranger Enquiry



“Through your closeness to the land you touched the sacredness of man’s relationship with God, for the land was proof of a power in life greater than yourselves.

You did not spoil the land, use it up, exhaust it, and then walk away from it. You realised that your land was related to the source of life.”

Pope John Paul II Alice Springs 1986.





“I can’t imagine a world without whales!”

(Anna, 11 years, Greenpeace Ad)

A Call From Science

“We have contributed to a climate system that human beings have never before experienced.”

Dr Janette Lindesay, Climatologist, Australian National University, Catholic Earthcare Climate Change Conference, Canberra, 19 November 2005

“We have changed the very chemistry of the planet, we have altered the biosystem, we have changed the topography and even the geological structure of the planet, structures and functions that have taken hundreds of millions of years and even billions of years to bring into existence.

Such an order of change in its nature and magnitude has never before entered into Earth history or into human consciousness.”

Fr. Thomas Berry C.P.

“Climate change will disrupt various natural systems that affect human health:

- regional food production;
- constraints on infectious agents;
- patterns of heat stress;
- exposure to extreme weather events (fire, flood, storms, cyclones, etc.)”

Professor Tony McMichael, Bio-medical Scientist, Australian National University

Millennium Eco-systems Assessment

“Over the past 50 years humans have changed the eco-system faster and more extensively than any period in human history...the result...a substantial and largely irreversible loss in the diversity of life.

The substantial gains in human well-being have been achieved at growing cost to the environment...these problems, unless addressed, will substantially reduce the benefits that future generations get from eco-systems. This degradation of eco-system services could get significantly worse during the next 50 years.

Reversing the degradation...is a challenge...involving significant changes to policies, institutions and practices...will have to be substantial when compared to the actions currently taken.”

Summary of Millennium Eco-System Report (2005) Compiled by 250 Scientists for the United Nations



God's covenant with Noah
embraces all of God's
diverse creatures.

(Gen 9:12-16)

(The Gift of Wonder - Page 8)

A Biblical Call

What is the place of human beings in relation to the rest of creation? According to the Bible, we too are God's creatures. We are part of the inter-connected community of creation, inter-related with all other creatures. As people created in God's image (Gen 1:27) we are called to work with creation, and to do so in such a way as to manifest the love and respect that God has for each creature. We are to be humble stewards before God. We are told "to cultivate and take care" of what God has gifted. (Gen 2:15) "Creation reveals God and His love," says Pope Benedict XVI. "God's created works are the first sign of his existence and love." (General Audience Nov 9, 2005)

As we reflect about this in our own context, we interpret this to mean that our special part of creation, the Australian continent, is entrusted to us by God.

We are to receive its fruitfulness as God's gift. We are called to be faithful trustees, respecting the integrity of God's creation.

This involves a call to protect the biodiversity of Australia. According to the Bible, the diversity of creation not only springs from the hand of God, but gives expression to God:

*"O Lord,
how manifold are your works!
In wisdom you have made them all;
the earth is full of your creatures."*
(Psalm 104:24)

Jesus' story, "*Consider the Lilies in the Field*" is but one of many teachings to lead us to deepen our understanding of God's love for us through the gift of Creation.

Christ is the visible likeness of the
invisible God.

He is the first-born son, superior
to all created things . . .

God has created the whole
universe through him and for him..

Col 1:15-16





“All creatures exist by participation in divine being”

St. Thomas Aquinas

A Call From Catholic Theology

There are several things we can say about creation, about God, about God's priorities, . . . God is always “acting” as Creator, not just “in the beginning”, but throughout cosmic history, right now and into the future. God as Creator is always enabling, empowering and calling - but not controlling - us and all the things around us into being . . . Creation is unfinished - it is only being completed, moving towards full communion with God as it unfolds . . .”- “ we human beings have extraordinary responsibilities towards one another and towards our environment. We are in fact deeply and irretrievably embedded in Nature - not separated from it, or above it.”

Fr. Bill Stoeger S.J.

Catholic Earthcare Climate Change Conference, Canberra, 19 November 2005

Some of the greatest theologians of the church have meditated on the diversity of creatures and have seen this as expressing the abundance of the Trinitarian God. According to St. Thomas Aquinas and St. Bonaventure, the diversity of species represents the wonder and beauty of God that transcends any one creature. God's creatures express and represent the Trinity. They are not simply there for human use, but have their own dignity, value and integrity. Such a view challenges the destruction of species and their habitats in the modern era.

As we ponder this . . . we see the rivers and all their birds, fish and animals as creatures that emerge and are sustained by God's ongoing creation. The loving act of ongoing creation has enabled them to flourish in this place. They are part of a story of ongoing creation that takes place over millions of years.

They are God's gift to us. They can communicate something of God to us. We are called to care for them, as fellow creatures before God and as loving and wise stewards of God's creation.

(“*The Gift of Water*” Statement - 2004, Catholic Earthcare Australia).

“... we are part of the interconnected community of creation, inter-related with all other creatures ...”

Fr. Dennis Edwards

Catholic Earthcare Climate Change Conference, Canberra,
19 November 2005



“The Eucharist provides the movement of the cosmos with its direction; it anticipates its goal and at the same time urges it on.”

Joseph Cardinal Ratzinger
San Francisco, 2002

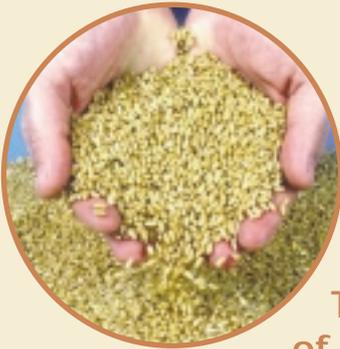
A Eucharistic Call

“This little piece of white host, this bread of the poor, appears as a synthesis of creation...when we contemplate the consecrated host, the mark of creation is speaking to us.”

Pope Benedict XVI, Corpus Christi, Vatican City, June 15, 2006

“The culture created by the living ethos of a vibrant Christian community centred on the Eucharist, offers, the most powerful long-term resource for ecological commitment.”

Sr. Pat Fox R.S.M.
(Quoting John Zizioulas)



“We participate in this transformation in Christ. The most intense moment of our Communion with God is at the same time an intense moment of our communion with the Earth.”

Fr. Tony Kelly C.S.S.R.

“We need to appreciate all over again that the whole universe is a sacrament, vivified by the presence of the Creator Spirit.”

Sr. Elizabeth Johnson, R.S.J.

“Knowingly destroying the living systems of our planet amounts to a denial of what we celebrate when we gather for Eucharist.

Eucharist is a sacrament of the Risen Christ transforming creation. ‘The Christ we encounter in the Eucharist is the risen one in whom all things were created and are reconciled’ (Col. 1:15-20); ‘to gather up all things in Him’ (Eph. 1:10) . In every Eucharist we are taken up into God. We participate in the divine Communion.”

Fr. Dennis Edwards
Catholic Earthcare Climate Change
Conference, Canberra,
19 November 2005



All creation rightly gives you praise.

3rd Eucharist Prayer



The human threat to all living things, which is being spoken of everywhere these days, has given a new urgency to the theme of creation.

Joseph Cardinal Ratzinger 1995

A Papal Call

Pope John Paul II for many years drew attention to the environmental crises facing humanity. In his 1990 New Year Message, he stated, “Christians, in particular, realise that responsibility within creation and their duty towards nature and the Creator, are an essential part of their faith”.

Nine years later, in his 1999 New Year Message, Pope John Paul II warned that “the danger of serious damage to land and sea, and to the climate, flora and fauna, calls for a profound change in modern society’s typical consumer life-style, particularly in the richer countries”.

Again, on 17th January 2001, (General Audience, Vatican), he drew attention to the continuing environmental deterioration of the planet, describing humanity’s disregard for the integrity of creation as “humiliating ... the earth, that flower-bed that is our home”. Prophetically, in this address, the Pope called the world’s Catholics to an “ecological conversion” to avoid planetary “catastrophe”.

“There is a divine message secretly inscribed in creation, a sign of the loving faithfulness of God who gives his creatures being and life, water and food, light and time. From created works one ascends...to the greatness of God, his loving mercy.”

Pope Benedict XVI, General Audience, Nov 9, 2005

God has made us what we are and in union with Christ Jesus He has created us for a life of good deeds, which He has already prepared for us to do.

Eph 2:10



With environmental degradation, "it is always the poor who will be impacted upon disproportionately."

Fr. Sean McDonagh S.S.C
Catholic Earthcare Climate Change
Conference, Canberra,
19 November 2005

A Call For Justice

"I cannot be silent when my brothers and sisters are threatened. I become the voice of those who have no voice . . . the voice of the generations to come . . . it is possible to make a difference . . . Let our response now be even more generous and effective."

Pope John Paul II, May 10, 1980

"Global climate change has already impacted and the number of environmental refugees increases yearly. Australian citizens need to be informed and to debate how best to relocate these people. Of immediate concern are environmental refugees coming from our Pacific neighbours. Their representatives have already visited our shores to alert us to their concerns and asked for our help."

"As one of the world's biggest emitters per capita of greenhouse gases, Australians are directly implicated in harming the many innocent peoples of the Pacific whose ecological footprint ironically, is radically lighter than our own."

("Climate Change - Our Responsibility to Sustain God's Earth", a Position Paper of the Bishops' Committee for Justice Development Ecology & Peace, November 2005, p18)

("Climate Change - Our Responsibility to Sustain God's Earth", a Position Paper of the Bishops' Committee for Justice Development Ecology & Peace, November 2005, p19)

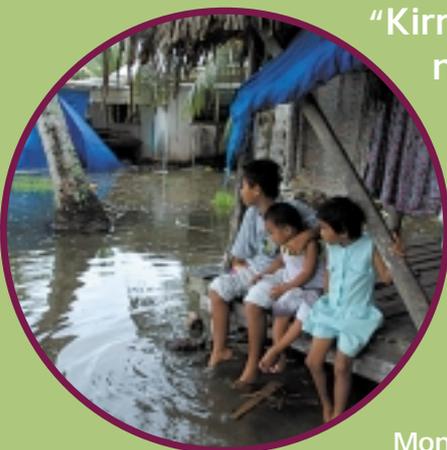
Pope John Paul II urged Australians to live out their "ecological vocations" because, he also said,

"Australians have special responsibility to assume, on behalf of all humanity, stewardship of the Pacific Ocean. The continued health of this and other oceans is crucial for the welfare of peoples, not only in Oceania but in every part of the world".

"Ecclesia in Oceania" Vatican City 2001

"Kirribati and other small nations in the Pacific are looking for a Good Samaritan. At this point in history, we are asking, 'Who will be a Good Samaritan for us?'"

Monsignor Michael McKenzie,
Catholic Earthcare Climate Change
Conference, Canberra, 19 November
2005



answering the calls

“...We must conclude that we are still betraying the mandate God has given us; to be stewards called to collaborate with God in watching over creation in holiness and wisdom...”

Pope John Paul II & Patriarch Bartholomew 1 , 10 June, 2002

What is our response to those many calls?

We make a Christian Response in Love:

We can know God personally through Jesus - a personal God - he sets our relationship to the community of life”

*Bishop Chris Toohey
ABC Radio, 7th December 2005*

“At the same time the human recognises that he is the one who receives the message of love inviting him to responsibility . . . as stewards of the earth to cultivate and protect it. From this fact there comes . . . their ‘ecological vocation’; which in our time has become more urgent than ever.”

*Pope John Paul II
Italy, August 25th 2000*

We work towards Ecological Conversion:

“It is necessary, therefore, to stimulate and sustain the ‘ecological conversion’ . . . protecting the radical good of life in all its manifestations and preparing an environment for future generations that is closer to the plan of the Creator”

Pope John Paul II, 17 January 2001

“I believe ecological conversion is about seeing with new eyes after a change of heart.”

*Bishop Chris Toohey
ABC Radio, 7th December 2005*

We find individual and community ways to live out our Ecological Vocation in our response to the call to be co-creators:

“Revelation teaches that men and women are created in the ‘image and likeness of God’ (Genesis 1:26) and thus...enables them, by the work of their hands to reflect God’s own creative activity. In a real way they are meant to be ‘co-creators’ with God, using their knowledge and skill to shape a cosmos in which the divine plan constantly moves to fulfilment.”

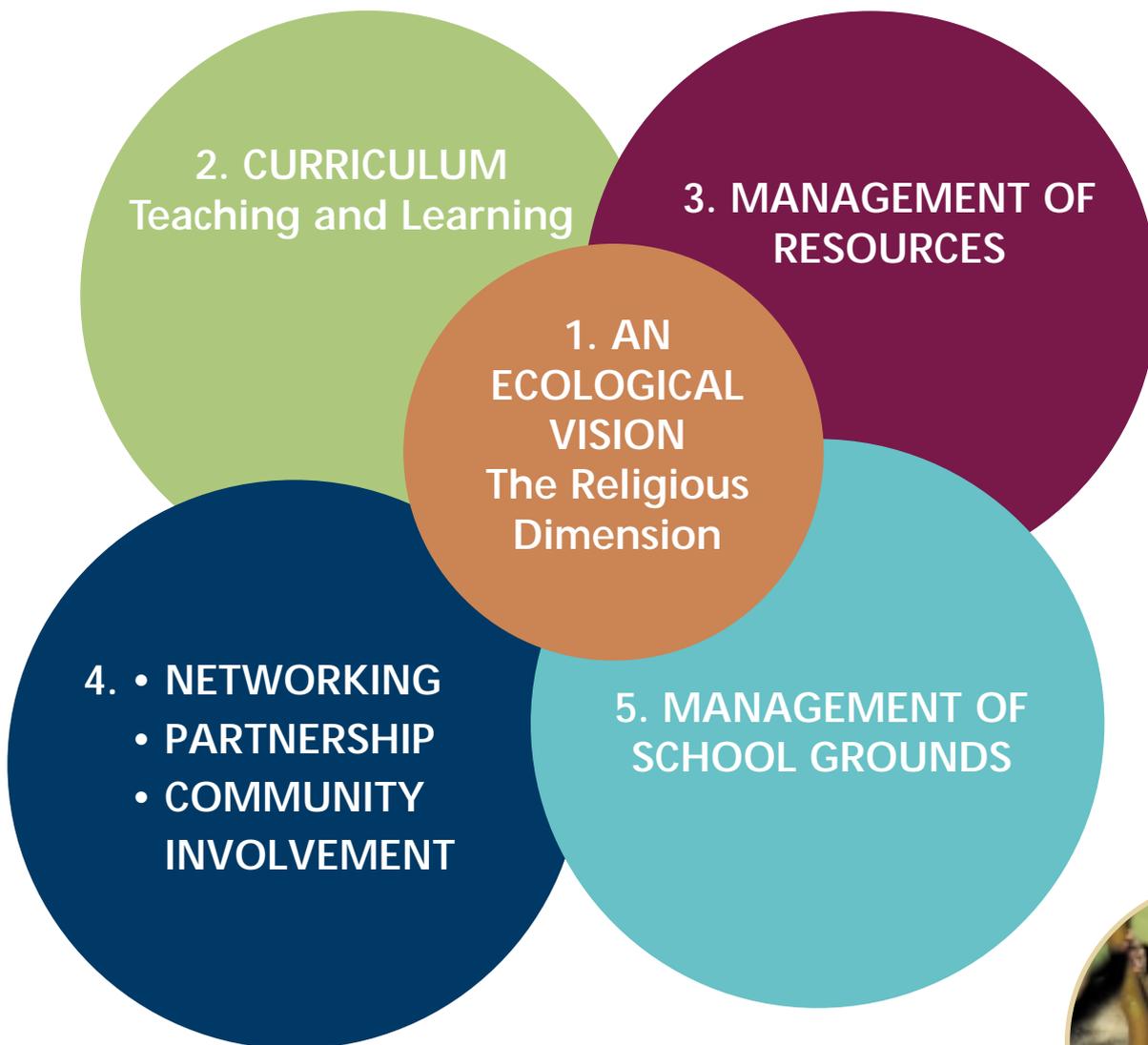
*Pope John Paul II
Address, 8 November 2004*



clarifying the vision

Policy and Planning As a Whole School

The development of School Policy and Planning for 'ecological conversion' can be seen through the following lenses:



Catholic education for ecological sustainability is not just the responsibility of the few or a particular department; it requires the involvement of the whole school. It should be embedded in all aspects of the school's operations-

administration, curriculum, teaching and learning, the physical surrounds, relationships with local community and outreach and engagement with others beyond the local community.



Sharpening the Focus

1. An Ecological Vision - The Spiritual Dimension

Each Diocesan Religious Education Curriculum details specific content in Faith Education, Knowledge, Moral Teaching, Scripture, Prayer, Liturgy and Social Teaching for all levels of schooling. Church documents like the Catholic Catechism, the Compendium of Social Teaching of the (Catholic) Church, as well as documents from the Australian Bishops and Catholic Earthcare Australia will provide the underpinning for a Catholic perspective on ecological education. One of the tasks of Catholic Earthcare Australia is to support Catholic Schools in this purpose. "An Environmental Audit - Towards Environmental Futures" the CD that accompanies this document, contains appendices of further reference sites of Social Justice, Theology and Eco-spirituality.

2. Curriculum

There are three areas for development:

1. Utilising teaching/learning opportunities in all Key Learning Areas
2. Professional Development of Staff
3. Community Education.

It is important that Catholic schools:

- identify and integrate those areas of the Religious Education Curriculum that are related to Environmental Education, especially Spirituality, Moral Teaching, Liturgy, Prayer, and Social and Ecological Justice
- identify and integrate those outcomes that are specific to Environmental Education in the Prep - 12 Queensland Government Syllabuses and each Diocesan Religious Education Syllabus
- use the extra-curricula opportunities provided by special events and school community actions to enhance the classroom curriculum learnings
- conduct an audit of existing environmental education practices and develop a yearly School Environmental Management Plan which incorporates all five Catholic ecological education focus areas
- plan / co-ordinate / integrate professional development opportunities on the theme of 'ecological conversion' for staff
- plan / co-ordinate / integrate community education opportunities especially for parents, family and parish



3. Management of Resources

“We must change our consumption habits...the Earth’s resources are finite and cannot be stretched...We are living beyond our environmental capacity We have to face the hard issues of radically changing our habits...”



(“*Let the Many Coastlands Be Glad*” - Page 21, Catholic Earthcare, June 2004)

“Ecological Conversion is to increase our spiritual footprint, and at the same time to lighten our ecological footprint.”

Col Brown - Director , Catholic Earthcare Australia
ABC Radio 7th December 2005

Schools should manage their resources from the Principles of Sustainability:

Employ the “Four R’s”
Refuse • Reduce • Reuse • Recycle

“Schools can move towards becoming sustainable organisations by committing to identifying , conserving and improving the environmental and heritage values of their school site, and by reducing their ecological footprint. As a starting point they can reduce waste, minimise energy, transport and water usage, increase recycling, encourage biodiversity in the school grounds, conserve the heritage value of the site, use sound purchasing practices and ensure canteen products are

environmentally appropriate. Moving towards sustainability needs to become an important feature of how the school organises its daily operations. The savings made can be used for other sustainability initiatives.”

“*Education for a Sustainable Future - A National Environmental Education Statement for Australian Schools*”, Page 11, Australian Government Department of Environment and Heritage, 2005

4. Networking and Linking

Local Community Involvement

Many ecological education developments are best achieved through collaborative action with the local and broader community. This might include partnerships with other educational institutions, local councils, businesses, industry, and community groups and networks.

This links student learning to the workplace and to local environmental and social

issues, and allows students to become active and involved participants.

Schools that have fostered partnerships have sometimes gained access to resources not otherwise available to the school.

Many schools have contributed significantly to community awareness, education and sustainable living practices in their local area through the influence of their environmental projects / activities.

Global Community Involvement

Similarly, Catholic schools have responded to moral / spiritual challenges on a global scale over many years.

The slogan “Live simply so that others may simply live” is integral to the modern Christian life.

Involvement in the earth ministry of Catholic Earthcare Australia, the mission outreach of Caritas, the Social Action Office Brisbane and the local work of St. Vincent de Paul, as well as the specific projects of particular religious congregations (Jesuits in India, Good Samaritans in Kirribati, Edmund Rice Schools in partnership with indigenous communities) and eco-justice activities are applauded and encouraged.





5. Management of school grounds

Physical Surrounds

Schools are often judged by the physical appearance and presentation of the grounds and buildings. Increasing the diversity and extent of vegetation cover in school grounds not only enhances its image of the school but also maximises the potential of these spaces to provide educational, religious and environmental experiences to the students. Many schools have developed their grounds for teaching and learning: (learnscapeing).

Students, staff and parents can be actively involved in the sustainable management of the grounds through activities such as habitat creation, mulching, vegetable gardening, landscaping, productive enterprises and litter reduction. The opportunities are limited only by the imagination and enthusiasm of the school community. The most effective learnscapeing projects are those that have been planned and involve students; parents and the wider community in active participation.

Although schools may be limited in what they can do about the design of their existing buildings, the refurbishing of older buildings should incorporate energy-efficient elements. For most schools it is how they use the buildings that will have the most impact. New buildings should be designed with energy conservation as a priority.

For Catholic schools, the physical surrounds can be symbolic / representative of the school's ecological vocation.

Learnsapes

Learnsapes are places where a learning programme has been designed to permit users to interact with an environment. They may be natural or built; interior or exterior; located in, near or beyond schools; and related to any one of, or many, key learning areas. They must be safe and accessible.

Schools involved in Learnscape projects have increased the diversity of their school grounds and buildings by adding features such as gardens, forests, ponds, shelters and outdoor classrooms. The increased diversity of the grounds and buildings allows for the design of a wider range of learning experiences and the creation of a Learnscape environment.

Learnsapes are gaining worldwide acceptance as valuable pedagogical innovations.

Sources:

*The School Learnsapes Trust 2000,
<http://www.learnsapes.org/>*

"In a sense sustainability is good stewardship through time and in effect a matter of intergenerational justice.

It means that the Earth's resources are to be used with future needs in mind."

Australian Catholic Bishops' Conference ~ "Commonwealth for the Common Good"



implementing the vision

In Queensland, Catholic schools would do well to be aware of the QLD Government's requirements for government schools to develop and implement School Environmental Management Plans (S.E.M.P.s). This planned whole school strategy helps move schools towards more sustainable practices, with a focus on long-term management of ecological issues and the embedding of an ecological ethos into the school's milieu.

Catholic schools are encouraged to visit the NSW Government's website www.sustainableschools.nsw.edu.au to access online School Environmental Management Plans as well as useful tools and links on this topic. Teachers are also encouraged to refer to Appendix 1 and 2 of this document for further assistance in implementing an effective S.E.M.P. Schools successfully implementing the ten step pathway detailed in Appendix 2 will achieve recognition and the status of an "Earthcare school". Of course, once achieved the cycle for ongoing improvement begins again.

Appendix 1 illustrates some detailed steps in becoming an Environmentally Active School and constructing a S.E.M.P. (Whole School Environmental Management Plan).

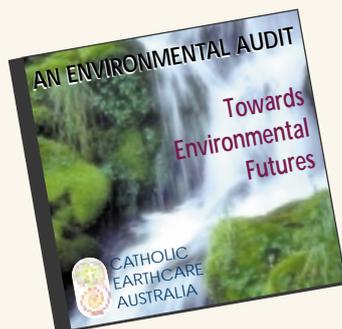
Appendix 2 offers another possible pathway for schools to achieve the status of an "Catholic Earthcare School".

A Whole School Approach

Schools implementing a whole-school approach to ecological education for sustainability typically indicate the following key points as important for success:

- active participation of the school leadership team from planning through to implementation;
- a vision of future directions for the school, shared with the school community;
- sustainability principles embedded in school policies;
- an implementation group or committee drawn from the school community including teachers, non-teaching staff, parents, students and specialist advisors, to give ownership to all sectors in the school and a structure to ensure that the workload is spread;
- starting with a clear overview of school operations (waste, water, energy, grounds and canteen), school policies, curriculum, and teaching and learning, before moving on to action planning;
- moving at a rate that is compatible with the school's ability to change; and
- keeping the school and local community informed and ensuring that successes are celebrated.

National Environmental Education Statement for Schools



An Environmental Audit CD accompanies this document and has been designed for Catholic Schools who wish to collect data and develop whole-school Environmental Management Plans.

Quality Teaching and Learning

Teaching and learning

The key elements of vibrant ecological education teaching and learning is a content and pedagogy that engages students at many levels.

Effective teaching and learning takes account of students' lives, their interests and their individual learning differences. Ecological and sustainability education particularly attracts students at risk of disengaging with learning, the 'gifted' learners and those in need of special learning support.

There are numerous ways of incorporating ecological and sustainability education into the curriculum. How these are developed will depend upon a school's particular situation. A diversity of approach is encouraged.

Quality teaching

For the purpose of promoting Quality Teaching and Learning, the Queensland Education Department introduced productive Pedagogies for its schools. The NSW Government has introduced a more simple framework set out below. It is similar to Queensland's "Productive Pedagogies" but is more brief, more manageable. Many Catholic schools have embraced this strategy as it leads to higher quality outcomes for students. We commend this model of teaching and learning in the areas of ecology and sustainability.

ITS INTELLECTUAL QUALITY

- 1.1 Ensures Deep Knowledge
- 1.2 Develops Deep Understanding
- 1.3 Contains Problematic Knowledge
- 1.4 Concerned with Higher-order Thinking
- 1.5 Uses Metalanguage
- 1.6 Involves Substantive communication

THE QUALITY OF THE LEARNING ENVIRONMENT

- 2.1 Displays Explicit Quality Criteria
- 2.2 Involves Engagement by Students
- 2.3 Sets High Expectations
- 2.4 Offers Social Support
- 2.5 Contains Students' Self-regulation
- 2.6 Employs Student Direction

THE SIGNIFICANCE OF THE LEARNING

- 3.1 Teaches Basic Knowledge
- 3.2 Draws on Cultural Knowledge
- 3.3 Involves Knowledge Integration
- 3.4 Employs Inclusivity
- 3.5 Offers Connectedness to other Subjects
- 3.6 Contains Narrative

Adapted from the "Quality Teaching Framework - Classroom Practice", N.S.W. Department of Education & Training, May 2005

resourcing the vision

Making Ecological Connections: Drawing on the Wisdom of Others



(See Appendix 3 for a list of valuable websites in the above areas)

sustaining the vision

Evaluating / Monitoring / Reporting

Staying in Touch

- A. To assist schools, in the words of Pope John Paul II to ‘stimulate and sustain the ecological conversion’, we would recommend a careful study of the chart in Appendix 1. The chart has been adapted from the NSW government’s DET Environmental Policy for Schools - “Steps in Becoming an Environmentally Active School”. We have included in the chart two additional columns specifically designed for Catholic schools, namely “Community Involvement” and “Religious Dimension”. This chart may be used for planning, implementing, monitoring and evaluating the school’s progress towards more ecologically sustainable operations.
- B. Another framework for measuring a school’s growth in ecological awareness can be found in the Appendix (Indicators for a Sustainable Future) to the Australian government document, “Educating for a Sustainable Future- A National Environmental Education Statement for Australian Schools” accessible at <http://www.curriculum.edu.au>. This framework enables schools to measure certain aspects of change in areas like school staff participation, curriculum innovation, progress of the management plan, water consumption, electricity consumption, waste minimisation and management, prudent use of school grounds and resources and car pooling.
- C. A number of Catholic schools have participated in the Keep Australia Beautiful “Green & Healthy Schools Program”. This program seeks to reward and support school committees for the environmental involvement in eleven separate areas of endeavour. www.keeppaustraliabeautiful.org.au/qld
- D. Schools across Queensland have been accredited as “Reef Guardian School” by the Great Barrier Reef Marine Park Authority (GBRMPA). This challenging program seeks to integrate school environmental activities with education for the Reef and its feeder catchments. There are vast online and practical support resources. www.gbrmpa.gov.au
- E. “Our environment: It’s a living thing” is a project funded by the NSW Government to serve as an overarching environmental education programme to motivate and encourage people to adopt ecologically sustainable lifestyles. The mentoring component of the project invited community educators to participate in a professional development programme for sustainability, to equip them in turn, to educate and prepare others for change in the workplace and broader community. For more detail visit <http://www.environment.nsw.gov.au/index.htm>
- F. For inspiration and ideas, make contact with other eco animators who have initiated projects in Catholic schools. Many ecologically active Queensland Catholic schools are listed in Appendix 5.
- G. Contact Catholic Earthcare Australia or visit its website for the latest resources, contacts and funding opportunities. www.catholicearthcareoz.net/



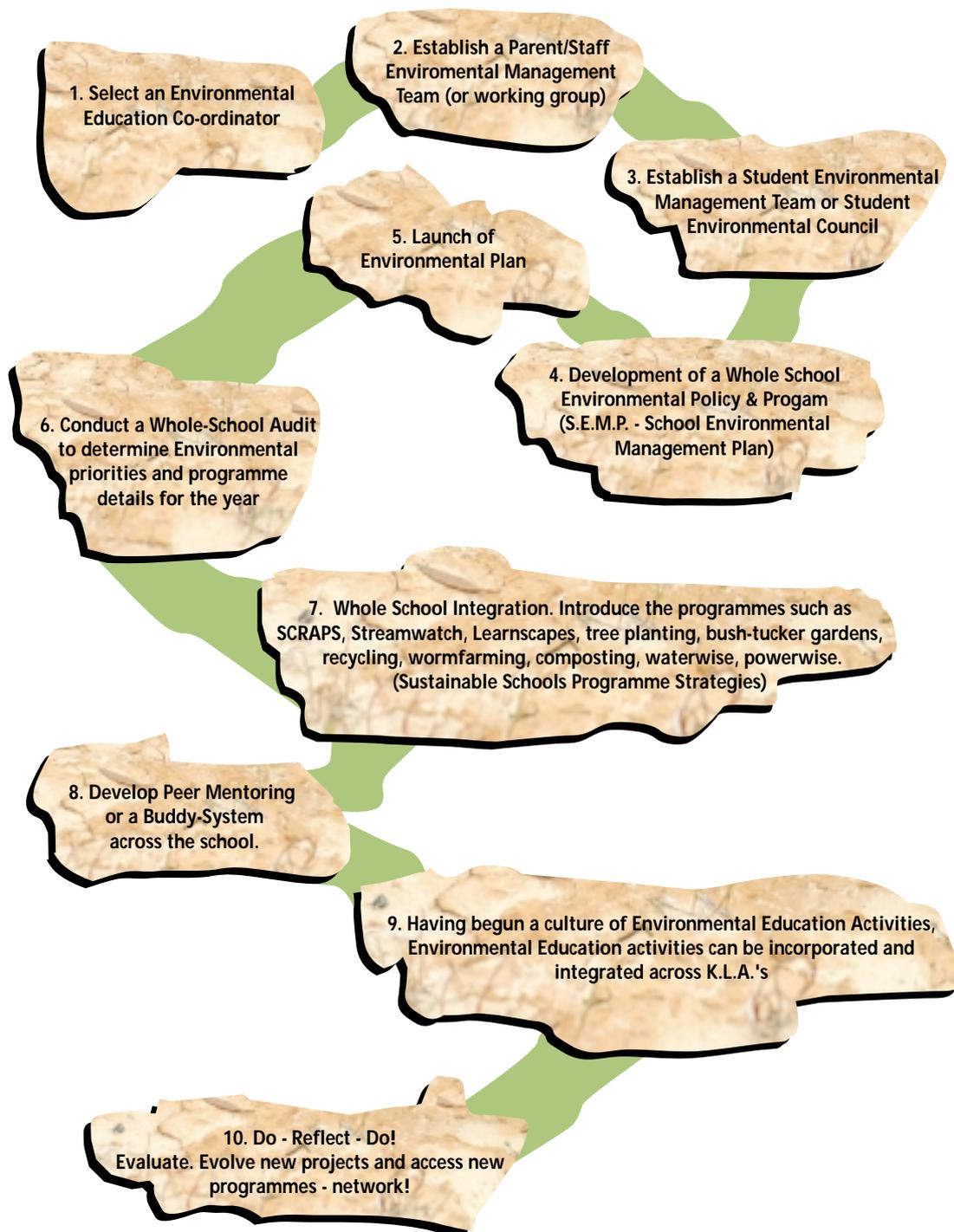
| Step | Whole-School Planning | Curriculum | Management of Resources | Management of School Grounds | Community Involvement | Religious Dimension |
|-------------------------|---|--|--|--|---|---|
| Pre-Awareness | Lack of interest in environmental education (EE) at ancillary teacher and executive level. | Commitment to environmental issues in T & L programmes is low or non-existent. Topics are taught in an ad hoc and unplanned way. No classroom programmes in place to address curriculum objectives in E.E. | EE and environmental issues are not considered in any school purchasing, resource use or waste management. | There is no consideration of the environmental impact of the use of school grounds. There is no consideration given to using the school grounds for E.E. | Absence of community involvement. Little awareness of funding opportunities for school-based environmental projects. | Absence of: • Prayer/Liturgy for the Environment • Response to Environmental refugees. Little awareness of Church's call to Ecological conversion. |
| 1. Awareness | Individual teachers, ancillary and/or executive are concerned about the lack of support for E.E. and wish to take action. Staff participates in an E.E. inservice. | Individual teachers programme for E.E. where mandated by the syllabus. Some environmental issues may be discussed in other subjects. | Individual teachers promote E.E. activities in resource management. There is little executive support for efforts towards 'best practice' in management of resources. Purchasing is ad hoc and does not consider ecological sustainable development. | Ad hoc landscaping of school grounds takes place. No long-term plans. Strategies for school grounds are based only on such issues as equipment, shade, safety and seating. | Exploration of: • community resources for environmental education • funding opportunities for school-based environmental projects. | Ad-hoc use of environmental prayer/liturgy. Individual responses to Environmental Refugees/Mission Appeals Elementary understanding of where Environmental education fits in Catholic school ethos. |
| 2. Planning | A formal school environmental co-ordinator and management committee are established and objectives determined. A student Environmental Council is established. | E.E. is being taught in the mandatory syllabuses and, to some extent, in other areas. A subcommittee is formed to conduct an audit. | A subcommittee is formed to conduct an audit. Subcommittee includes teachers, ancillary staff, students and community members. The subcommittee considers student involvement in the audit. Joint planning with external provider's begins. | School grounds subcommittee is formed. The committee consists of teaching and ancillary staff, along with students and community members. | Development of register of community resources for environmental education. Identification and planning of school-based environmental projects. | Whole school planning of: • Prayer/Liturgy/ special feasts for the environment • Staff development with a focus on Creation theology. |
| 3. Early Implementation | Audits are under way (See "Towards An Environmental Future" - A Catholic Earthcare Audit.) Policies and practices begin to reflect the views promoted by the E.E. committee. | Specific concepts and content KLA subjects and year programmes. Opportunities for E.E. to be included in management of resources and management of school grounds being explored. The subcommittee conducts an audit. | Audit is under way and provides information for developing strategies to reduce the school's resource use and waste production. Student's participate in the auditing process. | The subcommittee conducts an audit of the school grounds. Students participate in the auditing process. | Opportunities for links with local government and Non-government organisations, Caritas, St Vincent de Paul Society, etc. | Opportunities for links with Church agencies (e.g. CEA and Caritas). Establishment of special environmental days on school calendar. Development of service projects for environmental refugees/Missions. |
| 4a. Consolidation | Audits have been carried out in all focus areas and subcommittees are developing action plans. | The audit identifies current E.E. requirements of mandatory syllabuses and opportunities to integrate E.E. into other KLAs, and the management of resources and school grounds. Action plans are being formulated. Most students meet several environmental education objectives. | The audit has been completed. The subcommittee begins to examine programmes and practices in the management of resources. E.E. opportunities are explored. An action plan is developed in purchasing, resource use and waste management. | Audit reveals relevant environmental issues. Subcommittee develops an action plan based on achievable objectives. | As above + Application for Environmental Grants. Involvement in School Greening Competitions (requiring community resources). | As above + Embedding of Scriptural Catholic teaching about ecology, sustainable living, creation theology and creation spirituality across KLAs. |

| Step | Whole-School Planning | Curriculum | Management of Resources | Management of School Grounds | Community Involvement | Religious Dimension |
|---------------------------|---|---|--|--|--|--|
| 4b. Further Consolidation | <p>Action plans have been finalised in all focus areas and have been passed onto the school environment management committee.</p> <p>The environment management committee has integrated and prioritised the action plans.</p> <p>A school environmental management plan has been formulated and implemented.</p> | <p>The action plan has been passed onto the environment management committee, prioritised and integrated into the school environmental management plan.</p> <p>Teaching and learning programmes are in place in all stages to ensure sequential development of environmental objectives in mandatory syllabuses.</p> <p>T & L programmes in place which articulate opportunities to address all the E.E. objectives.</p> <p>Opportunities for environmental education associated with special events, programmes, management of resources and school grounds are incorporated into T & L programmes. Students meet most curriculum objectives successfully.</p> | <p>The action plan has been passed onto the environment management committee, prioritised and integrated into the school environmental management plan.</p> <p>The school environmental management plan is being followed, purchasing is being integrated and on-going data collection is used to evaluate the effectiveness of the plan.</p> <p>The school staff, students and community members participate in activities that exemplify "best practice".</p> | <p>The action plan has been passed onto the environment management committee, prioritised and integrated into the school environmental management plan.</p> <p>The school environmental management plan is in place and strategies are progressively implemented. Evaluation and review structures are established.</p> <p>The school community is improving the grounds. Grounds are being used as a teaching resource.</p> | <p>As above +</p> <p>High profile Environmental Educators invited to address school community.</p> <p>Marketing of school as "green" within local community.</p> | <p>As above +</p> <p>Outreach to other Catholic Schools in Diocese as part of school's ecological mission.</p> <p>Involvement in diocesan-wide environmental service projects.</p> |
| 5. Sustainability | <p>The school shows commitment to a school environment management plan as part of the school management plan. Effective action plans are in place and are regularly reviewed.</p> <p>Objectives for all focus areas are being met. Progress is reported in the school's annual report.</p> <p>The school is a model for others to follow and a logical and holistic plan is evident. Individual teachers, ancillary and/or executive are concerned about the lack of support for E.E. and wish to take action. Staff participates in an E.E. inservice.</p> | <p>The school has effective environmental education integrated into all stages and KLAs, where appropriate. The mandatory curriculum is taught effectively and opportunities are maximised for E.E. including special events, special programmes, and management of resources and school grounds. School demonstrates that it has implemented programmes that address all E.E. curriculum objectives. Programmes are based on environmental citizenship and personal action. Curriculum model is an inspiration for other schools.</p> | <p>All objectives for management of resources are achieved: purchasing, resource use and waste management are integrated across the whole school.</p> <p>"Best practice" is employed emphasising sustainability of resources and minimal environmental impact. Learning opportunities for students are incorporated. Progress is visible and is reported. The school management of resources is an example for students and the broader community to follow.</p> | <p>Objectives relating to school grounds are fully met. Management is consistent with the principles of ecological sustainable development. Grounds are developed to enhance environmental education. Progress is reported and the school environmental management plan is reviewed. School community demonstrates personal commitment to the school grounds. The school grounds are a diverse learning environment that has positive impacts on locals and global environments and is a model for others to follow.</p> | <p>As above +</p> <p>Local and National networking.</p> <p>School witnesses to the community with exemplary environmental profile and marketing.</p> <p>Sustained outreach to social Justice projects.</p> | <p>As above +</p> <p>Continued integration of religious education and environmental education in whole school planning.</p> <p>School communication, liturgy, prayer, reflect a whole school commitment to an ecological vocation.</p> |

appendix 2

One School's Ecological Pathway

Follow this pathway to become an accredited "Earthcare" school



Created by Dorrigo High School

appendix 3

Websites and Resources Relevant to Ecological and Sustainability Education

SOURCES FOR CREATION SPIRITUALITY / LITURGY / PRAYER / THEOLOGY AND JUSTICE ACTION can be found on the C.D. that accompanies this document: "Towards Environmental Futures - An Environmental Audit" compiled by Paul Lucas for Catholic Earthcare Australia.

www.planetslayer.com - especially Professor Schpinkee's Greenhouse Calculator

WET TROPICS - Department of the Environment and Heritage (Aus), Queensland Government Commonwealth; Queensland, Forest management; Tropical ecosystems; World heritage
<http://www.wettropics.gov.au/>

STATE OF THE ENVIRONMENT QUEENSLAND - Environmental Protection Agency (Qld)
Queensland; Environmental monitoring; Publications; State of the Environment Reports
<http://www.env.qld.gov.au/environment/science/environment/welcome.html>

QUEENSLAND HERITAGE TRAILS NETWORK - Department of the Premier and Cabinet (Qld)
Queensland; Natural and cultural heritage; Recreation. <http://heritagetrials.qld.gov.au/index.cfm>

PLANTS AND ANIMALS - Environmental Protection Agency (Qld)
Queensland; Biological diversity; Endangered animal species; Endangered plant species; Fauna; Flora; Licensing; Permits; Wildlife. <http://www.env.qld.gov.au/environment/plant/>

NATURAL RESOURCE MANAGEMENT EDUCATION - Dept of Natural Resources & Mines (Qld)
Queensland; Environmental education; Natural resources; For schools
<http://www.nrm.qld.gov.au/education/index.html>

NATURAL RESOURCE MANAGEMENT CATALOGUE - Department of Resources & Mines (Qld)
Queensland; Environmental education; For schools; Natural resources
<http://www.nrm.qld.gov.au/resourcenet/education/catalogue/index.html>

MAINTAINING LAND, WATER AND VEGETATION - Department of Natural Resources & Mines (Qld)
Queensland; Land use planning; Landcare; Pest Management; Soils; Vegetation; Water; Weeds
<http://www.nrm.qld.gov.au/resources/index.html>

IMPACT ASSESSMENT - Environmental Protection Agency (Qld)
Queensland; Environmental impact assessment. <http://www.env.qld.gov.au/environment/business/impact>

FOR SCHOOLS - Environmental Protection Agency (Qld)
Queensland; Coasts and oceans; Endangered animal species; Endangered plant species; Environmental education; For schools; National parks and reserves; Oceans and coastal areas; Wetlands ecosystems
<http://www.env.qld.gov.au/environment/school/>

EDUCATION - Department of Natural Resources (Qld)
Queensland; Environmental education; For schools; Land use planning; Natural resources; Pasture watch; Saltwatch. <http://www.dnr.qld.gov.au/resourcenet/education/index2.html>

COASTS AND OCEAN - Environmental Protection Agency (Qld)
Queensland; Community participation; Coral reefs; Grants programme; Great Barrier Reef; Litter; Marine conservation areas; Marine ecosystems; Oceans and coastal areas; World heritage
<http://www.env.qld.gov.au/environment/coast/>

SERVICES AND INFORMATION - Department of Natural Resources and Mines (Qld)
Queensland; Environmental education; For schools; Natural resources; Publications
<http://www.nrm.qld.gov.au/products/index.php>

RECREATION - Environmental Protection Agency (Qld)
Queensland; Coral reefs; Fisheries management; Great Barrier Reef; Marine Parks; Permits; Recreation; Tourism. <http://www.env.qld.gov.au/environment/recreation/>

PROTECTING THE ENVIRONMENT - Environmental Protection Agency (Qld)
Queensland; Air pollution; Air quality; Coasts and oceans; Contaminated land; Fuel wood; Greenhouse effect; Indoor air quality; Lead contamination; Legislation; Natural and cultural heritage; Nature conservation; Noise monitoring; Oceans and coastal areas; Ozone layer; Recreation; Waste minimisation; Water quality <http://www.env.qld.gov.au/environment/recreation/>

HEALTHY WATERWAYS - Environmental Protection Agency (Qld)
Queensland; Catchment areas; Inland waterways; Rivers; Sewage; Stormwater
<http://www.healthywaterways.org/>



ECOLOGICAL FOOTPRINT CALCULATOR -

www.keepaustraliabeautiful.org.au/eco_footprint/eco_foot_print_calc.htm

N.S.W. GOVERNMENT - SCHOOL ENVIRONMENTAL MANAGEMENT PLANS

www.sustainableschools.nsw.edu.au

DEPARTMENT OF ENVIRONMENT & TRAINING N.S.W.

www.curriculumsupport.nsw.edu.au/enviroed/

A2.E2. - AUSTRALIAN ASSOCIATION FOR ENVIRONMENTAL EDUCATION (AAEE) www.afsse.asn.au/aaee/

RIVER MURRAY URBAN GROUP www.murrayusers.sa.gov.au

KIDZONE - Environment ACT <http://www.environment.act.gov.au/kidszone>

KIDS AND SCHOOLS - State Forests of N.S.W. <http://www.forest.nsw.gov.au/sfkids/>

COASTAL ENVIRONMENT CENTRE <http://www.mhl.nsw.gov.au/www/cec.html>

YOUR ENVIRONMENT AT HOME, WORK AND PLAY

<http://www.environment.act.gov.au/yourenvironmentthwp>

WORLD ENVIRONMENT DAY - Department of the Environment and Heritage (Aus)

<http://www.deh.gov.au/events/wed/>

WATERWATCH AUSTRALIA - COMMUNITIES CARING FOR CATCHMENTS - Department of the Environment and Heritage (Aus) <http://www.waterwatch.org.au/>

WASTE SERVICE NSW HOME PAGE - Waste Service N.S.W. <http://www.wasteservice.nsw.gov.au/>

URBAN STORMWATER PROGRAM - Environment Protection Authority (N.S.W.)

<http://www.epa.nsw.gov.au/stormwater/usp/index.htm>

SMOGBUSTERS <http://www.smogbusters.org.au/>

RIBBONS OF BLUE - Water and Rivers Commission, Natural Heritage Trust

<http://www.wrc.wa.gov.au/ribbons/index.html>

AUSTRALIAN ASSOCIATION FOR ENVIRONMENTAL EDUCATION (A.A.E.E.) <http://www.aeea.asn.au/~aaee/>

ENVIRONMENTAL EDUCATION DATABASE - Environment Australia Strategic Development Division

<http://www.environet.ea.gov.au/education>

EARTH WORKS - LIVING WITH LESS WASTE - Environment Protection Authority (N.S.W.)

<http://www.epa.nsw.gov.au/earthworks/index.htm>

SOCIAL ASPECTS OF SUSTAINABLE DEVELOPMENT

<http://www.un.org/esa/agenda21/natlinfo/countr/austral/social.htm>

PLANTS FOR PLAYSPACES <http://kidswafensw.org/playsafety/>

Includes listings of suggested shade trees, shrubs, wind breaks, screening, fragrance, play props, bush tucker and edible plants and an extensive poisonous plants list.

THE SUSTAINABLE LIVING COMPETITION <http://www.sustainableliving.com.au/competition/>

WEEDBUSTERS http://www.weeds.crc.org.au/for_schools/weedwipeout_flash.html#

ECO TUDE WEBSITE <http://www.powershousemuseum.com/ecotude/index.asp>

SYDNEY WATER'S "WATER SCHOOL"

<http://www.sydneywater.com.au/EnsuringTheFuture/WaterSchool/>

THE WASTEWATER CHALLENGE GAME

<http://www.sydneywater.com.au/EnsuringTheFuture/WaterSchool/WastewaterChallenge.html>

THE RIVER RAID GAME <http://www.sydneywater.com.au/EnsuringTheFuture/WaterSchool/RiverRaid.html>

SECONDARY SCHOOL <http://www.education.melbournewater.com.au/content/secondary/secondary.asp>

YARRA VALLEY WATER'S "WATER SCHOOL" <http://www.yvw.com.au/waterschool/>

'SAVE H2O . . . THE WAY TO GO' - INTERACTIVE ONLINE ACTIVITIES (A.B.S.)

http://www.myinternet.com.au/edu/water_year/index.html

SOUTH EAST WATER EDUCATION http://www.southeastwater.com.au/sewl/index.asp?link_id=30.440

IT'S BUCKETING DOWN GAME

http://www.southeastwater.com.au/games/education_kidsroom_bucket.asp

FUN WEBSITE FOR KIDS <http://www.bugsurvey.nsw.gov.au/>

ENVIRONMENT AUSTRALIA BIODIVERSITY GROUP <http://www.deh.gov.au/biodiversity/>

AGRICULTURE, FISHERIES AND FORESTRY AGENCY <http://www.daffa.gov.au>

AUSTRALIAN HERITAGE COMMISSION <http://www.ahc.gov.au>

BUREAU OF METEOROLOGY <http://www.bom.gov.au/>

GREAT BARRIER REEF MARINE PARK AUTHORITY "REEF GUARDIANS" PROGRAMME
www.gbrmpa.gov.au

I.U.C.N. (THE WORLD CONSERVATION UNION)

<http://www.iucn.org>

UNITED NATIONS ENVIRONMENT PROGRAMME <http://www.unep.org>

WORLD WIDE FUND FOR NATURE (W.W.F.) <http://panda.org>

AUSTRALIAN & NEW ZEALAND ENVIRONMENT & CONSERVATION COUNCIL
(A.N.Z.E.C.C.) <http://www.deh.gov.au/pcep/anzec/>

MURRAY DARLING BASIN COMMISSION <http://www.mdbc.gov.au>

C.S.I.R.O. <http://www.csiro.au>

CENTRE FOR RESEARCH ON INTRODUCED MARINE PESTS (C.R.I.M.P.)

<http://www.marine.csiro.au/crimp/>

THREATENED SPECIES NETWORK <http://wwf.org.au/ourwork/species/tsn/>

AUSTRALIAN TOURIST COMMISSION <http://www.australia.com>

UNESCO <http://whc.unesco.org/>

ORIGIN ENERGY,S HOME ENERGY PROJECT - The Home Energy Project encourages students to think about energy use in the home and to develop ideas on how households can be more energy sufficient. Students then communicate these ideas to the wider community.
<http://www.originenergy.com.au/about/template.php?pageid=1035>

SECOND NATURE - EDUCATION FOR SUSTAINABILITY - Second Nature is a non-profit organisation that assists colleges and universities in expanding their efforts to make environmentally sustainable and just action a fundamental component of learning and practice. <http://www.secondnature.org/>

THE INTERNATIONAL JOURNAL OF SUSTAINABILITY IN HIGHER EDUCATION - This site puts you at the heart of a global network of practitioners, academics and legislators working on sustainable development in higher education. <http://www.emeraldinsight.com./ijshe.htm>

PROJECTS INTERNATIONAL - LEARNING TO CREATE A SUSTAINABLE WORLD - Projects International (PI) is working to integrate Education for Sustainability (Efs) into English language classrooms around the world. It is achieving this through student-centred, project-based learning that link schools, businesses, and communities. http://www.e-o-n.org/Projects_International/alpha/

ARIC INTERNET - WORLD CLASS RESEARCH AND EDUCATION IN ATMOSPHERIC AND SUSTAINABILITY ISSUES - This site provides an Encyclopaedia, Research and Consultation as well as many other services to assist in education on atmospheric and sustainability issues.
<http://www.cate.mmu.ac.uk>

THE SUSTAINABILITY EDUCATION CENTRE - The official homepage of the Sustainability Education Centre of the American Forum for Global Education. It was created in 1995 in response to the growing need for educational materials and professional development focused on sustainability.
<http://www.sustainabilityed.org>

SOCIAL ASPECTS OF SUSTAINABLE DEVELOPMENT IN AUSTRALIA - EDUCATION - An informative Website provided by United Nations on the environmental education focuses of the Commonwealth Government of Australia. <http://www.un.org/esa/agenda21/natinfo/countr/austral/social.htm#edu>





TEACHING FOR A SUSTAINABLE WORLD - A publication on sustainable education placed on the Web by the Commonwealth Department of the Environment, Sport and Territories. <http://www.deh.gov.au/education/publications/tsw/index.html>

ENVIRONMENT AUSTRALIA - EDUCATION AND TRAINING IN CLEANER PRODUCTION - Environment Australia's draft report on Education and Training in Cleaner Production, released in 1997. <http://www.deh.gov.au/industry/corporate/eecp/publications/pbs/educatio.pdf>

AUSTRALIA'S enviroNET / EDUCATION PATHWAY - The Education Pathway contains information on environment-related courses at Australian universities, colleges and training institutions. <http://www.deh.gov.au/industry/environment/index.html>

ENVIRONMENT AUSTRALIA: ENVIRONMENTAL EDUCATION - EnviroED - EnviroEd establishes a national network of environmental education and information programmes, materials and publications, in the interest of education for sustainability. <http://www.deh.gov.au/education/>

CURRICULUM LEADERSHIP 2:21 ENVIRONMENTAL EDUCATION FOR A SUSTAINABLE FUTURE <http://cmslive.curriculum.edu.au/leader/default.asp?issueID=9691&id=4695>

CURRICULUM LEADERSHIP 2:21 ENVIRONMENTAL EDUCATION IN WESTERN AUSTRALIA <http://cmslive.curriculum.edu.au/leader/default.asp?issueID=9691&id=4700>

VICTORIAN ASSOCIATION FOR ENVIRONMENTAL EDUCATION (V.A.E.E.) - Victorian Association for Environmental Education page contains information about professional development, resources and environment clubs. V.A.E.E. supports and promotes the development of environmental education in schools and the community. It does this through delivering its own initiatives and encouraging and supporting individuals and other groups whose environmental education approaches are consistent with its own. <http://www.vaee.vic.edu.au/>

ENVIRONMENTAL EDUCATION NETWORK - The Environmental Education Network (E.E.N.) is a collaborative effort among educators, the EnviroLink Network and the environmental community to bring environmental education on-line and into a multimedia format. The E.E.N. will act as the clearing house for all environmental education information, materials and ideas on the Internet. Includes separate resources for teachers and students. <http://www.envirolink.org>

DEAKIN UNIVERSITY - CENTRE FOR STUDIES IN MATHEMATICS, SCIENCE AND ENVIRONMENTAL EDUCATION <http://www.deakin.edu.au/education/csmsee/>

NEW VISION FOR ENVIRONMENTAL EDUCATION - For the first time Australia has a nationally-agreed vision for environmental education in its schools. 'Educating for a Sustainable Future: A National Environmental Education Statement for Australian Schools', is the result of extensive consultation, research and development with teachers, communities, organisations, governments and industry groups and is compatible with existing state and territory policies and programmes. <http://www.deh.gov.au/education/publications/sustainable-future.html>

TODAY SHAPES TOMORROW - ENVIRONMENTAL EDUCATION FOR A SUSTAINABLE FUTURE - This Discussion Paper has been written to ensure that it is meaningful to a diverse range of people. While some stakeholders working in the field may find certain material straightforward, it is included to help as wide an audience as possible appreciate why environmental education is a priority. <http://www.deh.gov.au/education/publications/discpaper/>

EDUCATING FOR A SUSTAINABLE FUTURE - A NATIONAL EDUCATION STATEMENT FOR AUSTRALIAN SCHOOLS - Educating for a Sustainable Future provides a nationally agreed description of the nature and purpose of environmental education for sustainability through all years of schooling, including a vision and a framework for its implementation. It is intended for teachers, schools and their communities, education systems and developers of curriculum materials. It is also intended as a companion to existing State and Territory policies and programmes and does not replace them. <http://www.deh.gov.au/education/publications/sustainable-future.html>

CURRICULUM LEADERSHIP 2:21 ENVIRONMENTAL EDUCATION IN WESTERN AUSTRALIA <http://cmslive.curriculum.edu.au/leader/default.asp?issueID=9691&id=4700>

appendix 4



Environmental Diary Dates

2007 INTERNATIONAL YEAR OF THE DOLPHIN
 2008 INTERNATIONAL YEAR OF PLANET EARTH
 2005 - 2009 DECADE OF WINTER
 2005 - 2014 U.N. DECADE FOR SUSTAINABLE DEVELOPMENT

2007 GREEN DATES:

2007 GREEN DATES:

| | |
|-------------|--|
| 2 FEB | WORLD WETLANDS DAY www.deh.gov.au/water/wetlands/day/index.html |
| 2 MAR | SCHOOLS CLEAN-UP DAY www.cleanup.com.au |
| 4 MAR | CLEAN-UP AUSTRALIA DAY www.cleanup.com.au |
| 4 - 10 MAR | SEAWEEK www.mesa.edu.au/seaweb.asp |
| 20 MAR | EARTH DAY www.earthday.net |
| 21 MAR | WORLD FORESTRY DAY www.forests.qld.gov.au/educat/wfd/wfd1998.htm |
| 22 MAR | WORLD DAY FOR WATER www.unesco.org/water/water_celebrations/ |
| 14 - 22 APR | NATIONAL YOUTH WEEK www.youthweek.com |
| 1 JUN | GEOGRAPHY WEEK www.rgsq.gil.com.au/compdetc.htm |
| 5 JUN | WORLD ENVIRONMENT DAY www.unep.org/wed/2007/english/ |
| 8 JUN | WORLD OCEANS DAY www.gdrc.org/oceans/oceans-day.html |
| 17 JUN | WORLD DAY TO COMBAT DESERTIFICATION & DROUGHT www.unccd.int/publicinfo/menu.php |
| 18 -22 JUN | NATIONAL SCIENCE WEEK www.youthweek.com |
| 27 JUL | SCHOOLS TREE DAY www.planetark.com |
| 29 JUL | NATIONAL TREE DAY www.planetark.com |
| 12 - 20 AUG | NATIONAL SCIENCE WEEK http://scienceweek.info.au/ |
| 27 - 31 AUG | KEEP AUSTRALIA BEAUTIFUL WEEK www.kab.org.au |
| SEPTEMBER | SAVE THE KOALA MONTH www.savethekoala.com |
| | NATIONAL BIODIVERSITY MONTH www.environment.gov.au/biodiversity/month.html |
| 3 SEPT | SAVE THE KOALA AT SCHOOL DAY www.savethekoala.com |
| 3 - 9 SEPT | LANDCARE WEEK www.landcareonline.com |
| 7 SEPT | NATIONAL THREATENED SPECIES DAY www.deh.gov.au/biodiversity/threatened/ts-day/index.html |
| 8 SEPT | NATIONAL SUSTAINABLE HOUSE DAY www.solarhouseday.com |
| 14 SEPT | CLEAN-UP THE WORLD WEEKEND www.cleanuptheworld.org/en/Activities/clean-up-the-world-weekend-2007.html |
| 21 SEPT | INTERNATIONAL DAY OF PEACE |
| 21 SEPT | TREES FOR PEACE |
| 21 SEPT | TREEPLANTING DAY |
| 28 SEPT | NATIONAL SAVE THE KOALA DAY www.savethekoala.com |
| 1 OCT | WORLD HABITAT DAY www.unhabitat.org |
| 4 OCT | FEAST OF ST. FRANCIS www.franciscans.org.au/earthcare |
| 4 OCT | WORLD SPACE WEEK www.spaceweek.org |
| 5 OCT | WALK TO WORK DAY http://www.walk.com.au/wtw/page.asp?pageid=207 |
| 5 - 9 OCT | NATIONAL RECYCLING WEEK www.planetark.com |
| 7 OCT | NATIONAL EARTH SCIENCE WEEK www.ga.gov.au/about/event/esw06_activitiesbystate.jsp |
| 8 - 12 OCT | NATIONAL WEEDBUSTER WEEK www.weedbusters.info.aubout.htm |
| 14 OCT | NATIONAL WATER WEEK www.sustainableliving.com.au/national-water-week |
| 17 OCT | INTERNATIONAL DAY FOR ERADICATION OF POVERTY www.un.org/esa/socdev/poverty/poverty_link3.htm |
| 6 NOV | INTERNATIONAL DAY FOR PREVENTING THE EXPLOITATION FOR THE ENVIRONMENT IN WAR AND ARMED CONFLICT www.un.org/depts/dhl/environment_war/ |
| 24 NOV | BUY NOTHING DAY www.sustainableliving.com.au/buy-nothing-day/ |
| 3 - 9 DEC | COASTCARE WEEK www.landcareonline.com |
| 5 DEC | INTERNATIONAL VOLUNTEERS www.youthweek.com |



appendix 5

Examples of Ecologically Active Catholic Schools in Queensland

| School | Diocese | Contacts |
|--|-------------|---|
| Chanel College, Gladstone | Rockhampton | Ph: 4978 1566 Email: the.pincipal@chanelcollege.qld.edu.au |
| Columba Catholic College, Charters Towers | Townsville | Ph: 4787 1744 Email: columbaa@charters.net.au |
| Holy Cross School, Wooloowin | Brisbane | Ph: 3857 2443 Email: pwooloowin@bne.catholic.edu.au |
| Holy Rosary Primary School, Lutwyche | Brisbane | Ph: 3349 7188 Email: pwindsor@bne.catholic.edu.au |
| Holy Spirit Primary School, Cranbrook | Townsville | Ph: 4779 4255 Email: crnbrk@tsv.catholic.edu.au |
| Holy Spirit School, Bray Park | Brisbane | Ph: 3205 3955 Email: braybark@bne.catholic.edu.au |
| Ignatius Park College, Aitkenvale | Townsville | Ph: 4796 0222 Email: ipc@ipc3.qld.edu.au |
| Mary MacKillop Catholic School, Highfields | Toowoomba | Ph: 4698 7777 Email: highfields@twb.catholic.edu.au |
| Padua College (Eastern Campus), Kedron | Brisbane | Ph: 3857 2022 Email: admin@padua.qld.edu.au |
| Our Lady of the Assumption, Enoggera | Brisbane | Ph: 3355 6688 Email: penoggera@bne.catholic.edu.au |
| Ryan Catholic College, Kirwan | Townsville | Ph: 4773 2677 Email: office@ryanccs.qld.edu.au |
| Sacred Heart School, Yeppoon | Rockhampton | Ph: 4933 6288 Email: principal@sacredheartschool.qld.edu.au |
| Siena Catholic College, Buderim | Brisbane | Ph: 5476 6100 Email: ssippgdowns@bne.catholic.edu.au |
| Southern Cross Catholic School, Annandale | Townsville | Ph: 4778 3444 Email: anndle@tsv.catholic.edu.au |
| St. Andrew's Catholic College, Redlynch | Cairns | Ph: 4039 0933 Email: principal.redlynch@ceo.cairns.catholic.edu.au |
| St. Andrew's Primary School, Ferny Grove | Brisbane | Ph: 3351 6886 Email: pfernygrove@bne.catholic.edu.au |
| St. Anthony's Catholic College, Deeragun | Townsville | Ph: 4751 5106 Email: drgn@tsv.catholic.edu.au |
| St. Brendan's College, Yeppoon | Rockhampton | Ph: 4939 9300 |
| St. Brigid's Primary School, Nerang | Brisbane | Ph: 5596 4188 Email: pnerang@bne.catholic.edu.au |
| St. Catherine's School, Proserpine | Townsville | Ph: 49451081 Email: prspne@tsv.catholic.edu.au |
| St. Colman's School, Home Hill | Townsville | Ph: 4782 2030 Email: homehl@tsv.catholic.edu.au |
| St. Patrick's School, Winton | Townsville | Ph: 4657 1652 Email: wntn@tsv.catholic.edu.au |
| St. Pius School Banyo, Banyo | Brisbane | Ph: 3267 7306 Email: pbanyo@bne.catholic.edu.au |
| St. Rita's Primary School, Victoria Point | Brisbane | Ph: 3207 6628 Email: pvictoriapoint@bne.catholic.edu.au |
| St. Saviour's College, Toowoomba | Toowoomba | Ph: 4637 1600 Email: deanhs@stsav.qld.edu.au |
| St. Teresa's College, Abergowrie | Townsville | Ph: 4777 4600 Email: administration@abergowrie.qld.edu.au |
| St. Teresa's Catholic College, Noosaville DC | Brisbane | Ph: 5474 0022 Email: snoosaville@bne.catholic.edu.au |
| St. Thomas More College, Sunnybank | Brisbane | Ph: 3345 4233 Email: ssunnybank@bne.catholic.edu.au |
| St. Vincent's, Gold Coast MC | Brisbane | Ph: 5572 1746 Email: probina@bne.catholic.edu.au |
| St. William's Primary School, Grovely | Brisbane | Ph: 3355 5122 Email: pgrovelly@bne.catholic.edu.au |
| Star of the Sea Catholic Primary School, Gladstone | Rockhampton | Ph: 49721305 Email: starofthesea@bigpond.com |
| Stella Maris, Maroochydore | Brisbane | Ph: 5443 8950 Email: pmaroochydore@bne.catholic.edu.au |

Good News Eco-Stories From Queensland Catholic Schools

St. Francis Xavier School, Manunda, Cairns - Promotion of Health & Nutrition - Curriculum

An emphasis on healthy food in the curriculum and in school tuckshops is a key aspect of the Green & Healthy Schools Programme and St. Francis Xavier School in Manunda has set a benchmark for excellence in this area. A Nutrition Committee comprising the tuckshop manager, physical education teacher and parents oversees the comprehensive healthy food programme and consults a nutritionist for advice. A 'Healthy Eating' pack has been prepared and distributed, the curriculum is monitored, and an exemplary tuckshop is managed. During the main lunch break, meals are served to order from a daily changing menu that includes a range of international dishes. All meals are colour-coded according to their nutritional value. Healthy snacks are sold for the afternoon break and fruit is effectively free with the daily meal deals. Children who bring their own lunch also receive green, red or amber acknowledgement stickers according to the nutritional value of their meal. Produce from the School's vegetable garden is sold to the tuckshop, where hygiene is carefully managed. Regular promotional events are planned and party days are occasionally held to acknowledge that "junk" foods may play a small role in a balanced diet.

Padua College, Brisbane - Conservation and Waste

Padua College is an amazing and highly successful school in the areas of resource conservation and waste management. Thanks to the hard work of the school's environment club and dedicated environmental teachers like David Searle, the college is achieving marvellous things not only within the school but also the wider community. Resource conservation and waste management is incorporated into the curriculum, with the school reducing, reusing and recycling everything possible. Gardens are well mulched with suitable green waste. Padua College reduces waste. Padua College held its annual plastic bag famine weekend again this year and has trademarked the 'Be Fantastic, Get Rid of Plastic' slogan which was launched on World Environment Day 2006, as part of a new programme to ban plastic bags in the Brisbane ward of Marchant. Local Councillor, Faith Hopkins, joined the Padua College Green Team, Ranger Stacey, Ranger Tim and 4KQ personalities at the Westfield Chermerside launch. The college also plans to hold a community fun day to promote the plastic bags programme and will continue to lead a network of local schools to end the use of plastic bags. Padua College sets a superb example in conserving resources and reducing waste.



St. Anthony's Catholic Primary School, Toowoomba - School Spirit - Outreach

St. Anthony's Catholic Primary School in Toowoomba sends out a strong message of unselfishly caring for others in the world. The school is now more than 50 years old and has an enrolment of around 260 students from a wide range of backgrounds and cultures. This diversity has possibly been the catalyst for the huge effort the students make to care for others. The project club operates all year round, raising funds for the local hospice and recently, for schools affected by Cyclone Larry. The club has also been involved in the Relay for Life Project, Jump Rope for Heart Programme, and selling badges for the Save the Children Australia Fund. St. Anthony's Catholic Primary School prides itself on its pastoral care programme which is designed to assist people within the school and parish during times of need. We could all take a lesson from St. Anthony's fine example of selflessness and school spirit!

St. Colman's School, Home Hill - Litter Prevention & Waste Management

St. Colman's School has litter licked. The school has developed a Green & Healthy programme that incorporates ideas and strategies from a number of excellent environmental programmes, including Reef Guardian Schools and WaterWise. Litter is an integral part of the school's Green & Healthy Programme. Students from each grade form Green Patrols to monitor litter. They check areas assigned to each class on a weekly basis and award litter-free areas at assembly. Years 6 and 7 students manage classroom bins and recycling and deliver scraps from fruit breaks to the worm farm. Litter issues are addressed through the curriculum, with students learning about appropriate bin use. The school also takes part in Clean Up Australia Day. These simple but effective litter strategies ensure that St. Colman's School is a clean and very well presented school.

St. Colman's is also a school which is determined to ensure it makes the most of what it has, with a range of resource conservation and waste management project underway. Things start with the enthusiastic Years 1 and 2 who are collecting scraps and taking care of the school's vermiculture project with has more than 2000 earthworms. Informative talks and posters around the school help to educate all students about the food scraps suitable for this project. Years 3, 4 and 5 have undertaken a litter audit of the school. Clearly marked bins are used to distinguish between recyclables and disposables, and some innovative ideas are to be examined to try to reduce the volume of packaging which enters the school. Years 6 and 7 are involved in a WaterWise project which promotes responsible water usage, water conservation and a reduction in water pollution - at school and in the wider community. The resource conservation and waste management practices at St. Colman's are extensive and based on a well structured hierarchy of learning ability.

St. Mary's South Burnett Catholic College, Wide Bay-Burnett Region - Community Action

St. Mary's South Burnett Catholic College has a strong commitment to the Kingaroy community, and three initiatives stood out this year to highlight just how important social justice, welfare and the environment is to this school community. First is the Minnie Vinnie, and Young Vinnies groups, affiliated with St. Vincent de Paul, which are made up of energetic and generous students who visit nursing homes, help at the St. Vincent de Paul shop, donate goods, raise awareness of homelessness through sleepouts, and are active in reconciliation activities. Next the Cherbourg homework centre that provides invaluable homework support to students who live out of town. The centre is reliant on many teacher volunteer hours and particularly on a teacher's aide whose time and effort goes beyond the call of duty. And finally, the ongoing efforts of the school community to establish a grey water recycling plant, in partnership with the hospital next door, which is expected to reduce the school's impact on Kingaroy's water supply. These three examples provide an indication of the valuable, and valued, role St. Mary's plays in its community.

Holy Spirit Primary School, Townsville - An Eco-School - Green Philosophies - Whole School Planning

Holy Spirit Primary School has a school-wide environmental management strategy that incorporates school policies and an action plan. In keeping with this plan, the school has developed an excellent integrated curriculum for all grades, with a strong focus on the environment. Topics include sustainable living practices, rainforests, the Great Barrier Reef (it is a Reef Guardian School), mining and tourism. Holy Spirit also follows the Refuse, Re-use, Reduce and Recycle philosophy and has a school-wide greening programme. Hands-on learning activities include gardening, recycling, mural painting, worm farming, a bush tucker project and a shade tree programme. Impressively, all of these projects and activities are recognised and supported by an awards programme managed by the Student Environment Council, which consists of 16 students from Years 4 to 7. Awards include the Tidy Terrier and Aussie of the Month. Holy Spirit Primary is a wonderful example of a school that is actively encouraging its entire student body to take up the whole school approach to environmental education. Its practices have been recognised with numerous environmental awards over the past four years.

St. Teresa's College, Abergowrie (Nth Qld) - Indigenous Curriculum & Spirituality

St. Teresa's College is a boys, secondary boarding college with more than 80% of its enrolments being indigenous students from across Northern Australia. Apart from its many hands-on environmental practices like the use of water tanks in its water conservation plan, the college has developed an extensive eco-spirituality and eco-justice curriculum for indigenous boys aged 13 - 18. Much of the Spirituality is linked to excursions, retreats and camps associated with the land. For example Year 11 have a choice of "Street Retreat" or a "Nature Retreat". The college has developed many of its own liturgical symbols especially the highly symbolic professional cross. Environment units have been integrated into the curriculum for all age groups. Indigenous Dance groups travel Queensland with their exhibitions of spirituality and culture. As a college set among the tropical canefields of North Queensland, St. Teresa's is a vibrant high achievement institution that reflects a true sense of ecological mission and closeness to the land.

appendix 6

Personal Action for the Environment

HOW MUCH DAMAGE ARE YOU DOING?

Greenhouse Calculators

EPA Victoria's Australian Greenhouse Calculator

<http://www.epa.vic.gov.au/GreenhouseCalculator/calculator/default.asp>

The Australian Greenhouse Calculator will calculate your yearly greenhouse gas emissions based on your answers to a series of questions. It will also compare your greenhouse emissions with that of a 'typical' house and a 'green' house. It's the most thorough greenhouse calculator for Australians, and it requires Shockwave Player version 7 or greater.

Personal Greenhouse Calculator (University of Sydney)

<http://www.physics.usyd.edu.au/~cdey/greenhouse.html>

This calculator uses input/output analysis (life cycle analysis) to show the greenhouse impact of your lifestyle. Instead of focusing only on energy consumption, it takes into account the full upstream costs of everything we do - from buying a vacuum cleaner to eating a steak.

Ecological Footprint Calculators

Best Foot Forward's quick Ecological Footprint Calculator (international)

<http://www.bestfootforward.com/footprintlife.htm>

Answer 13 questions and find out how many planet Earths we'd need if everyone lived the way you do.

WHAT YOU CAN DO AT HOME

Your Home - your guide to a more environmentally sustainable home

<http://www.greenhouse.gov.au/yourhome/about/index.htm>

Your home is a suite of consumer and technical guide materials and tools developed to encourage the design, construction or renovation of homes to be comfortable, healthy and more environmentally sustainable.

Global Warming: Cool It! (Australian Greenhouse Office)

<http://www.greenhouse.gov.au/pubs/gwci/index.html>

A home guide to reducing energy costs and greenhouse gases, this site gives you the low down on appliances, heating and cooling, transport and food. Tips on what to look out for, and some alarming impact facts!

How Green Is My Valiant?

<http://www.abc.net.au/science/bernie/valiant/default.htm>

A quick, fun quiz to see how much attention you've been paying to all that greenhouse stuff...



MEASURING FOOTPRINTS

"eco'tude": changing your school's ecological attitude

The eco'tude calculator developed at the Powerhouse Museum asks you questions about your school and uses your answers to make an estimate of your school's ecological footprint - the total - the total amount of land disturbed by activities at your school.

You will find fact sheets on this site to tell you more about ecological footprints and the "eco'tude Land disturbance footprint"; how ecological footprints fit into the broader framework called ecological sustainable development. "Bigfoot" uses Australian data to determine your personal ecological footprint.

"Eco'tude" is an ongoing process, just like your school's commitment to sustainability. Repeat your audits on a regular basis and continue to track the size of your school's ecological footprint. Remember to keep the rest of the school community informed of the success stories and if things don't go quite as you expected, don't be discouraged. You can always try again soon.

For more information contact:

Education & Visitor Services

P.O. Box K346, Haymarket

Sydney NSW 1238

Phone: (02) 9217 0222

Email: edserv@phm.gov.au

Visit: www.powerhousemuseum.com/ecotude/

Some Key Greenhouse Organisations

Greenhouse Calculators

IPCC - Intergovernmental Panel on Climate Change

<http://www.ipcc.ch/>

The IPCC is an intergovernmental body that provides scientific, technical and socio-economic advice to the world community, and in particular to the 170-plus Parties to the United Nations Framework Convention on Climate Change (UNFCCC).

CANA - Climate Action Network Australia

<http://www.cana.net.au/>

CANA is an alliance of over 25 regional, state and national environmental, health, community development, and research groups from throughout Australia.

CSIRO Division of Atmospheric Research (Australia)

<http://www.dar.csiro.au/>

CSIRO Atmospheric Research conducts research into weather, climate and atmospheric pollution, concentrating on environmental issues affecting Australia and the World.

The Co-operative Research Centre for Greenhouse Accounting (Australia)

<http://www.greenhouse.crc.org.au/index.cfm>

The CRC aims to provide research outputs for greenhouse emissions accounting at the national and project level.

SEDA - Sustainable Energy Development Authority (NSW)

<http://www.seda.nsw.gov.au/>

SEDA is an agency created by the New South Wales Government to reduce the level of greenhouse gas emissions in this state.

Other Environmental Organisations (Australia)

Birds Australia <http://www.birdsaustralia.com.au/>

Clean Up Australia <http://www.cleanup.com.au/>

Friends of the Earth Australia <http://www.foe.org.au/>

Greenpeace Australia Pacific <http://www.greenpeace.org.au/>

Landcare Australia <http://www.landcareaustralia.com.au/>

The Wilderness Society (Australia) <http://www.wilderness.org.au/>

The Wilderness Society is a national, community-based, environmental advocacy organisation whose mission is to protect, promote, and secure the future of wilderness and other high conservation areas.

CONSERVATION COUNCILS OF AUSTRALIA:

Nature Conservation Council (NSW)

<http://www.nccnsw.org.au/>

Queensland Conservation Council

<http://www.qccqld.org.au/>

Conservation Council of Western Australia (Inc.)

<http://www.conservationwa.asn.au/>

Conservation Council of South Australia

<http://www.ccsa.asn.au/>

Conservation Council of the South-East Region and Canberra

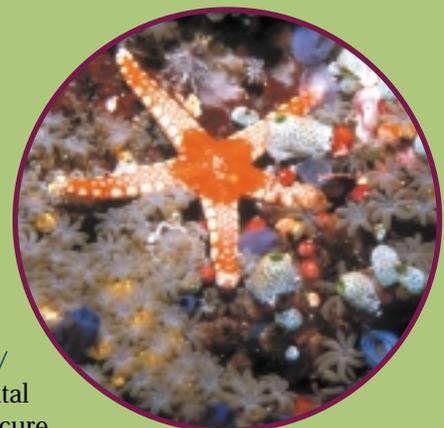
http://www.earthshare.org.au/members_CCSERAC.htm

Environment Victoria

<http://www.envict.org.au/>

Port Phillip Conservation Council (Vic)

<http://home.vicnet.au/~phillip/new.htm>



acknowledgements

Sincere thanks to the many people who so generously acted as consultants in the research, drafting, design and production of this Ecological Vision document including:

Paul Lucas, Principal drafter and Principal, (Holy Spirit School, Townsville), Col Brown (Project Co-ordinator and CEO of Catholic Earthcare Australia), Sue Martin, Louise Brown & Michael Douglas (St. Joseph's Albion Park High), Trish Hindmarsh, Stella Maris School (Burnie, Tasmania), Tess Fong (St. Joseph's School, Mt Isa), members of the Diocesan Environmental Awareness Team Townsville, Evelyn Halliday (compilation), Kellie Ackerman (graphic artist), Steve Doyle & Paul Fergus (graphics), and numerous members of Sydney, Wollongong, Parramatta, Broken Bay and Townsville Catholic Education Offices.

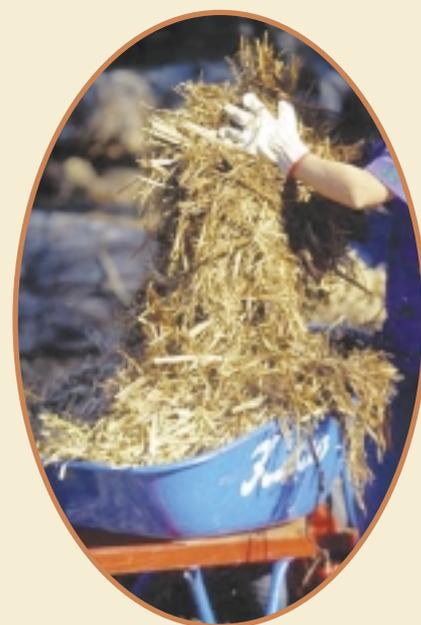
Acknowledgement is made to the Environment.Gov.au portal (Australian Government), the Government of South Australia - Department of Environment & Heritage Sustainability Education site, The N.S.W. D.E.C. and Department of Environment & Heritage (Environmental Education Section), U.N.E.S.C.O. - Education for Sustainable Development, Edna - Environmental Education, for their comprehensive resource lists and support for schools.

The D.E.H. (Australian Government) has produced a National Environmental Education Statement for Australian Schools (2005): *"Educating for a Sustainable Future"*. This document is acknowledged as a substantive reference.

Main front cover photo courtesy of Steve Doyle's private collection, Canberra.

references

1. United Nations, Eco-systems Reports (2005)
2. State of the Environment, Australia 2001 <http://www.deh.gov.au/soe/>
3. S.O.E. Op. Cit.
4. S.O.E. Op. Cit
5. Compendium of Social Doctrine of the (Catholic) Church p.238, Pontifical Council for Justice & Peace, Rome, 2005
6. "Environmental Education Policy for Schools", D.E.T. (NSW), Curriculum Support Directorate, 2001
7. Professor Ian Lowe - A Big Fix, Habitat Vol 33 No. 5, 2005.



From the Heart to the Hands...



"We are all painfully aware of the fundamental obstacle that confronts us in our work for the environment.

It is precisely this: how are we to move from theory to action, from words to deeds?

We do not lack technical scientific information about the nature of the present ecological crisis.

We know not simply what needs to be done, but also how to do it.

Yet, despite all this information unfortunately little is actually done.

It is a long journey from the head to the heart and an even longer journey from the heart to the hands."

*Patriarch of Constantinople Bartholomew I
4th Symposium on Religion Science and the Environment
June 2002*



Within a Single Generation...

"It is not too late. God's world has incredible healing powers. Within a single generation we could steer the earth toward our children's future. Let that generation start now, with God's help and blessing."

*John Paul II and Bartholomew I,
Joint Declaration on Environment, June 2002*



Address by Archbishop John Bathersby



"Pope John Paul II, who in a remarkably consistent series of statements on the environment, has passionately promoted 'Ecological Conversion' as the norm for all Catholics. If such a conversion was to become a reality among the one billion Catholics of the world, think what a difference it would make to the well-being of the world, now and in the future..."

But passion for the environment will not be maintained unless we are plugged into Christ through scripture, prayer and the sacraments of the church. As a Christian, concern about the environment must be linked to faith.

We can express that concern as simply as by the careful use of power or water in our schools and homes, or as powerfully as by ensuring that the magnificent Barrier Reef off our Queensland coastland is protected for the benefit of the entire planet."

*Queensland Launch of Catholic Earthcare Australia
Marymount College, Burleigh Waters, June 5, 2003*



"If you love your native land do not let this appeal go unanswered! . . . devise programmes for the protection of the environment and ensure that they are properly put into effect!"

Pope John Paul II
June 1999