

# enviro

we all want quality surroundings

## THE END OF LIFE

as we know it?



Carillion & Sustainability

Sustainability Training

Christmas Cheer

**SNAKES GALORE!**

Win £50 for your story



**More Inside**



Over 80% of the business now certified to ISO 14001



## New Homes for Canadian Rattlesnakes.

Carillion Canada have been constructing a new 10km section of Highway 69 near Parry Sound, Ontario. The work on the \$30 million contract started in October 2000 with Carillion leading a joint venture with Canadian companies Aecon and Alarie.



During the bidding process and at early project meetings it was made clear that the highway was passing through an environmentally sensitive area. This area is part of the Canadian Shield which is a vast horseshoe shaped area around Hudson Bay covering eastern and central Canada. Typical Canadian Shield terrain is undulating land with small hills with numerous lakes and bogs. Building a highway through this terrain involved blasting and moving nearly 1 million cubic metres of rock which was in turn used to fill the bogs encountered on the highway alignment.

The major environmental issue was that the new highway cuts through one of the last known habitats of a protected species - The Eastern Massasauga Rattlesnake (*Sistrurus catenatus*). A workshop was set up early in the project

attended by all field and site office employees where representatives from the Ontario Ministry of Natural Resources presented a slide show. The slide show explained the problems with the shrinking of the snakes' range because of disappearing habitat, the danger that the snake poses to humans and the procedure for identifying and catching a snake found within the construction zone. The Massasauga Rattlesnake is the only venomous snake in Ontario. Its bite can make you ill but is rarely deadly if treated promptly. As it is a protected species the Ministry wanted the opportunity to move any snakes found within the site to safer areas.

- Once the route was planned the entire habitat within 500 metres of the road was assessed for signs of snakes or their habitat.
- Rattlesnakes were collected and fitted with radio transponders (by a vet) so that they could be identified again, and monitored to discover where they breed, lay eggs, eat and spend the winter.
- Upon finding a nest of snakes during Spring, construction in that area was rescheduled to allow the young snakes to develop enough to move - and they did move from the highway without encouragement.
- Artificial hibernation and gestation sites were constructed to try and recreate the conditions that the snakes require, right down to the thickness of the rocks that help to maintain their body temperature.

Due to the well established relationship with the Ministry of Natural Resources Carillion Canada made some changes to the way that the excavated bog material was handled leading to significant savings for Constructor and Client.

The Ministry of Transportation has also recently won an environmental award because of the success of the snake population programme along the highway route.

Co-operation on the project between the construction team, environmental agencies and the client created an atmosphere where everyone benefited especially the Eastern Massasauga Rattlesnake.



**£50**  
prize winning story

**David Hindley**  
Divisional Planning  
Engineer  
Carillion Canada.

### CONGRATULATIONS!

To Crown House Engineering who have recently been recommended for certification to ISO 14001 the Environmental Management Standard in their Major Projects Division, Midlands and North regions.

Also to TPS Consult in Edinburgh, Glasgow and Birmingham.

And finally to PJ Walls in Ireland and Tarmac Alawi in Oman, bringing the percentage of the business certified to well over 80%

### Environmental Helpline.

The Carillion Environmental Helpline can provide free help and advice with environmental queries and problems - with most enquires being answered on the same day.

To contact the helpline ring

0207 902 6188  
or email: [envhelpdesk@stanger.co.uk](mailto:envhelpdesk@stanger.co.uk)

### Water Awareness

As part of our Sustainability Targets the Head Office Complex are implementing a water awareness programme.

Posters, leaflets and information will be filtering out around the head office complex in the near future. The aim of the campaign is to increase awareness about the amount of water that we use and provide ideas and suggestions to reduce water usage at home and at work.

Watch out for Enviro 11 in 2002. And don't forget to send in your stories you could win

enviro is written for all Carillion employees, to keep everybody informed of environmental issues that affect our communities, our business and ourselves. Please read it and pass it on to others at work or at home. Enviro can also be included in tenders and pre-qualification documents; the environmental issues that affect us also affect our clients' business.

If you require further copies or would like to be added to the distribution list, please contact Gemma Naylor, Enviro, 3rd Floor, Peel House, Wolverhampton WV1 4RU. Fax 01902 316131, or email: [GNaylor@carillionplc.com](mailto:GNaylor@carillionplc.com)

## Introducing the Carillion Sustainability Policy



Carillion plc  
Sustainability Policy

Carillion provides sustainable solutions for the way we live

We will achieve this by:

- Sharing our vision and policy with all
- Turning our vision into reality by embedding sustainability into everything that we do
- Measuring and verifying our progress
- Promoting our vision as an instrument of change

### 1. Carillion provides sustainable solution for the way we live

No one can yet provide a 100% sustainable solution - although some projects such as Princess Margaret Hospital use more sustainable options where viable. Safety is an example where we implement sustainable solutions by dismissing unsafe alternatives. Our 2000 report contains many other examples of the sustainable solutions that we provide.

Sustainability is a balance of environment, social and economic elements and this can be achieved to a certain extent on most projects. However the 100% sustainable solution for construction would

involve the analysis of embedded energy, recycling and return to nature for all of the elements of construction, maintenance and demolition not to mention for example the social cost and local economy. These are improvements to strive for in the future.

### 2. Sharing our vision and policy with all

The communication of our policy, strategy and vision to provide the sustainable solution with employees, sites, stakeholders, shareholders, NGO's, Government and Alliance partners.

Although our vision is to find THE sustainable solution and improve quality of life for all, the smaller sustainable solutions we currently provide are also very important. These solutions are demonstrated and reported through our annual sustainability targets, Enviro, annual report, Intranet and Internet site.

### 3. Turning our vision into reality by embedding sustainability into everything we do

Sustainability is about concepts and ideas - the way that you / we / the business do things. Within Carillion its about getting these principles into business strategies and processes at a high level as well as incorporating it into the culture, employee development and behaviour, site action plans, toolbox talks and training.

The Carillion plc Sustainability Policy reminds us to do something different every day. Thinking sustainability will help to ensure that the infrastructure that we leave behind is as sustainable as possible.

Unfortunately there is no tick box procedure for sustainable development and no black and white or easy answers. We also understand the need for a balance between sustainability and our company's competitiveness.

### 4. Measuring and verifying our progress

Progress towards the vision and policy is measured through annual sustainability targets. These are externally audited and verified and the scores and results from this process reported in the annual sustainability report. We are currently learning lessons from last years performance to meet our current objectives. These will be reviewed, with new objectives and targets currently being developed for next year. The use of targets demonstrates continual improvement, development and review of our strategy. While the reporting of both good and bad news demonstrates the openness of the company and its values.

### 5. Promoting our vision as an instrument for change

Use and promote our vision and policy amongst stakeholders to engage people in the sustainability debate. Use our experience to help and guide the construction industry and joint venture partners to enable the industry as a whole to develop sustainably.

Allow the vision to be dynamic and develop as Carillion, our business, the industry and Government learn more about sustainable development and contribute to its implementation within business systems and processes. This will enable us to function in the most ethical manner.

Further communication and explanation of the policy will take place in the New Year.

## Sustainability Awareness Training

Learning Works in partnership with Stanger Science and Environment have developed the first on-line learning module for the Construction Industry Learning Network of the Construction Industry Training Board.

The on-line module introduces the concept and framework of Sustainable Development, what it means to you and what it means to the construction industry. The module will benefit individuals who are new to sustainable development as well as those who have already been introduced to some of the issues surrounding the subject.

This interactive module can be used by anyone within the Construction Supply Chain and should take approximately 20-25 minutes to complete. With interactive exercises, and various Carillion examples this module has been designed to allow you to work through at your own pace and on

your own PC dipping in and out of the module as required.

Upon completion of the module, taking time to complete and return the feedback form would greatly assist in the future development of this and other on-line learning and sustainability modules.

As this is a new learning experience some teething problems have been encountered with getting the module on-line. The majority of these have now been overcome and the module is situated on the Learning Works Intranet site under the on-line learning section. Before launching the module for the first time a plug in will have to be installed by IT Services - a request form for this plug in is enclosed on the Learning Works web site. For those with limited or slower intranet access a cd version of the module is available on request from Naomi Clift at Learning Works (01902 317902 - 7005 7905).



Carillion plc have recently adopted a sustainability policy. This policy will allow us to implement the concepts of sustainability into our business and work towards becoming a sustainable construction to services company.

**"Sustainable development is one of those things that everybody supports, but no-one really knows what it means in practice"**

*Jonathon Porritt, Forum for the Future.*



**Why do we need sustainable development?**

Because the need for development is as great as ever, but future development cannot simply follow the model of the past. This is true for the world as a whole, as well as every UK community.

**The Global Situation**

- 1/4 of the worlds people have to survive on incomes of less than US \$1 a day.
- 1/5 have no access to healthcare.
- If everyone adopted the Western style we would need 5 Earth's to support us.
- The world's population will increase by another 3 billion people by 2050.

**UK Situation**

Economic growth remains vital for a better quality of life, for education, healthcare, housing, to tackle poverty and social exclusion, and to improve standards of living through better goods and services.

**For Now and the Future**

"Sustainable development is a dynamic process which enables all people to realise their potential, and to improve their quality of life, in ways which simultaneously protect and enhance the Earth's life support systems"

*(Forum for the Future Annual Report 2000.)*

We need to find a new way forward. This is the challenge of sustainable development.

**For the future**

We need ways to understand the economic, social and environmental objectives at the same time, while simultaneously achieving them, and considering the long term implication of our decisions.

**Carillion and sustainable development**

Our new sustainability policy formalises the introduction of the principles of sustainable development into business strategies and processes. It can also be used to incorporate the principles into culture, site functions and training. It is one step towards our vision of being able to provide THE sustainable solution as a sustainable construction to services company which will deliver growing shareholder value with transparency and accountability in our environmental and social performance.

We are constantly learning how best to use sustainability as a driver for innovation and new business and to integrate environmental, social and economic issues to lead to lateral thinking and innovation that can really make a difference now and in the future.

Further information about how the principles of sustainable development fit within the company values will be featured in the next issue of ENVIRO.

**Towards a greener Christmas at home and at work.**

**Christmas! A time of good will and celebration. Accompanied in most cases by eating, drinking and spending - an increase in fun over the festive period and an increase in waste. With some thought and planning you can reduce the impact of the festivities on the Environment.**

**Christmas Presents**

- Buy recycled - look out for unusual recycled gifts such as glass, tableware and photo frames.

**Wrapping and Decorating**

- Choose decorations that can be re-used and make decorations using scrap or edible materials.
- Use last years Christmas cards for gift tags.

**Christmas Cards**

- Send e-cards, charity Christmas cards or cards made from recycled materials.
- After Christmas take your cards along to Boots or other recycling points, or set up your own collection point on site or in the office.

**Christmas Trees**

- 5 million Christmas trees are bought each year, most of which are thrown out after

Christmas creating 9,000 tonnes of additional waste. Check with your local council for shredding points

**Waste**

- Segregate your waste paper, glass and cans and take them to your local recycling facility.

**Office and site shut down**

- When closing down for the Christmas break ensure all windows are shut, heaters off, computers and monitors shut down and lights off.
- Reusable steel plates for protecting openings are often stronger and save wasting timber which has to be regularly replaced.
- Instead of a Christmas Tree, how about planting a tree on site.

Happy Christmas and a Green New Year from Enviro - thanks to Katy Dowding for suggesting and inputting ideas for this feature.

Further information and details on how to have a greener Christmas can be found at:

**Waste watch - [www.wastewatch.org.uk](http://www.wastewatch.org.uk)  
Going for Green - 0800 783 7838  
Waste watch wasteline - 0870 243 0136**

