

## Comparison of communication and public engagement in CCS projects worldwide

#### **Energy Transformed Flagship**

Peta Ashworth, Judith Bradbury, Ynke Feenstra, Sallie Greenberg, Gretchen Hund, Thomas Mikunda & Sarah Wade

Bangkok, Thailand, 8th June 2011

**Presented by Anne-Maree Dowd** 





## Sharing of experiences

# What has been your experience with communication and engagement on CCS?



## This presentation

## Introduction of the 5 case studies

Evaluation of cases

Main findings



Take home message

**Toolkit** 



## 5 case studies worldwide



ZeroGen Project
Otway Basin Project
FutureGen Project
Barendrecht Project
Carson Project



## Current project status

## Otway, AU

Completed first phase of injection; monitoring to continue to 2015

## FutureGen, USA

Site selected Morgan County, Illinois.

DOE, which is committing \$1 billion in economic-stimulus funds to the \$1.3 billion project, has dubbed the new approach "FutureGen 2.0."

### Barendrecht, NL

After period of uncertainty cancelled in November 2010

## Zerogen, AU

- Project dropped ownership of ZeroGen was handed to an industry body, the Australian Coal Association.
  - State taxpayers' investment \$102.5 million;
  - Federal Government \$47.5 million towards the pre-feasibility study

Department of Economic Development wrote down \$96.3 million of equity in ZeroGen as a loss in its recent annual report

## Carson, USA

Project dropped Project re-structuring and is now named 'California Project' in the mean-time



## How were sites selected?

## Otway, AU

Research based selection; geological site characterisation

### FutureGen, USA

 Competitive process using extensive siting criteria to select from interested potential host communities

### Barendrecht, NL

Private industry election, supplemented by grant award

## Zerogen, AU

 Queensland Government backed initiative, investigating best storage sites

## Carson, USA

Private industry selection, based on commercial advantage of proximity to reedstock



## Communication, outreach & engagement

## Otway, AU

 Early focus on community acceptance & trust; consultation plan including education, community liaison and reference group

### FutureGen, USA

 Competition for siting (fostered community pride); access to technical experts; in-depth knowledge of community; multiple methods

### Barendrecht, NL

 Top down approach; no engagement in project design; reactive to opposition

## Carson, USA

 Extensive small meetings and low-key efforts, but (social) context not taken enough into account

## Zerogen, AU

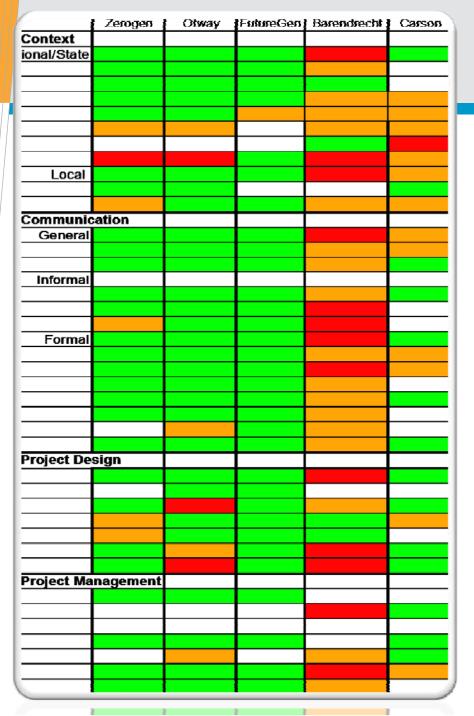
 Building trust; identifying risks in stakeholder communication & responding to them; commitment to transparency



## Evaluation of case studies

- Translation *lessons learned* of individual case studies into list of 39 evaluation factors
- Evaluation factors = success factors
- Categorised in:
  - Context
    - National / state
    - Local
  - Communication
    - General
    - Informal
    - Formal
  - Project design
  - Project management





- Green Addressed; positive impact
- Amber Not fully addressed; could have been important
- Red Not addressed or considered; negative impact, possibly a show-stopper
- Blank not enough data availble or not applicable



## Main Findings

- Best practice in communications and outreach alone are not sufficient to ensure successful CCS project deployment.
- A project's ability to adjust its planning and management to its social context is more likely to ensure a positive outcome for all involved.
- Successful projects integrate communication and outreach as a critical component of the project from the beginning.



## Lessons learned Project planning & management





## Planning & Management: Key Questions

- To what extent are the key government (national, state, local) and project team members aligned?
- Can the project developer affect the situation and enhance coordination and a shared agenda?
- Are communication experts/staff included as an *integral part* of the project team from the outset of the project?

## Planning & Management: Key Questions

- To what extent are factors related to social context included in:
  - Selection of a specific site
  - Project design and implementation
- What degree of *flexibility* does the project developer have in framing the project?
- What degree of *flexibility* does the project developer have in adjusting the implementation strategy?

## Lessons learned Communication, engagement and outreach

## Investigate

- Know community well
- Identify local benefits
- Identify all stakeholders

## Adapt

- Message & channels to community & stakeholders
- Include local benefits

## Engage

- •Engage early!
- Two-way communication
- Unique factor competition



## Take home message

 The public will accept CCS, but not always

Communication, engagement and outreach alone is not enough

Ability to adjust planning & management to social context is crucial







National Research

Communication/Engagement Toolkit for CCS Projects

#### **Energy Transformed Flagship**

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## Communication/Engagement Toolkit for CCS Projects

**Energy Transformed Flagship** 

Presented by: Anne-Maree Dowd

(Authors: Peta Ashworth, Judith Bradbury, C.F.J. (Ynke) Freenstra, Sallie Greenberg, Gretchen Hund, Thomas Mikunda, Sarah Wade and Hylton Shaw)





## Background

### Selection of case studies based on:

- Geographical location
- Outcome of project

## Individual case study reports

- Desk research incl media analysis
- Stakeholder interviews via common interview guide

## Comparison case studies

- Listing factors influencing success
- Evaluation cases on these factors

## **Development of a practical toolkit**

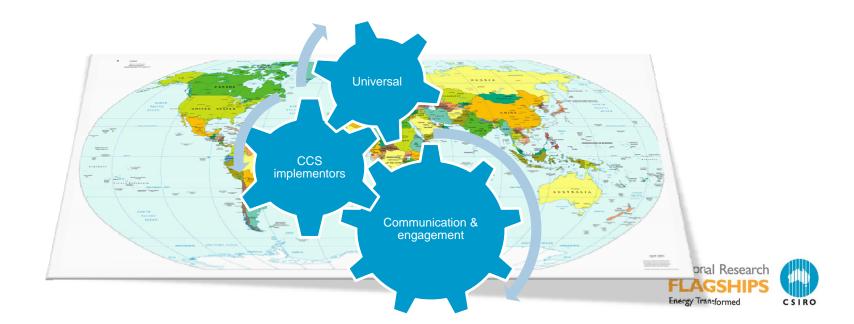
- Based on lessons from case studies
- Input from people working in the field!





## Toolkit goals

- To assist in the design and management of communciation and engagement activities around CCS projects worldwide
- Universal guide for CCS implementors:
  - To use at different stages & in various ways
  - Including methods & examples
  - Practical and informative



## The Toolkit

- Content:
  - Gathering social data
  - Stakeholder engagement
  - Communication Plan
- Examples from the toolkit





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## Communication/Engagement Toolkit for CCS Projects

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## Content (1) Gathering social data

#### Local context and local benefits must be known well

#### What's in the toolkit:

- Explanation & possible working ways (quantitive & qualitative data)
- Worksheet to fill in by CCS project team
  - Demograhics
  - Local attitudes to projects
  - Local impact of project
- Baseline survey
  - Who, what, why, when & how explanation
  - Examples of interview guide
  - Examples of internet & paper surveys



## Examples from the toolkit Gathering social data

#### QUESTION 3: KNOWLEDGE OF CLIMATE CHANGE AND RELATED ISSUES

Please complete the following by circling the number that most closely matches your opinion.

How would you	rate your knowledge of the following?	kno	No owledge		Moderat knowledg	_	High knowledge				
Climate change		1	2	3	4	5	6	7			
Causes of greenho	ouse gas emissions	1	2	3	4	5	6	7			
Government initia gas emissions	tives to reduce greenhouse	ı	2	3	4	5	6	7			
Industry initiatives gas emissions	to reduce greenhouse	1	2	3	4	5	6	7			

#### QUESTION 4: KNOWLEDGE OF ENERGY SOURCES AND RELATED TECHNOLOGIES

Please complete the following by circling the number that most closely matches your opinion.

How would you rate your knowledge of the following?  Wind		No owledge		Moderat knowled		High knowledge				
		2	3	4	5	6	7			
Carbon dioxide capture and storage (CCS)	1	2	3	4	5	6	7			
Nuclear	1	2	3	4	5	6	7			
Hydro-electric	1	2	3	4	5	6	7			
Coal	1	2	3	4	5	6	7			
Natural gas	1	2	3	4	5	6	7			
Geothermal (hot rocks)	1	2	3	4	5	6	7			
Solar	1	2	3	4	5	6	7			
Biofuels	1	2	3	4	5	6	7			
Oil	1	2	3	4	5	6	7			
Wave/tidal	1	2	3	4	5	6	7			

#### WORKSHEET I: LOCAL ATTITUDES TO PROJECTS

Has the community been subjected to large project proposals in the past?

CCS PROJECTS	YES 🗸	NO /	LIST
Power plants (Coal, gas, nuclear)			
Wind farms			
Enhanced oil recovery			
Geothermal			
Solar farms			
Biofuels			
Other			

Have any	surveys o	or research	been done	previously	in the	community	in regard t	to a large p	lanned
project?									

	YES		N
--	-----	--	---

Have any local groups, websites or blogs been set up opposing or favouring a project in the past or presently?

LOCAL GROUPS	YES 🗸	NO /	LIST
Websites			
Blogs			
Other			

## Content (2) Stakeholder engagement

Stakeholders should be engaged in the right ways and at the right moment (start early!)

#### What's in the toolkit:

- Identifying stakeholders
  - Explanation
  - Worksheet
  - Stakeholder list example & worksheet
- SWOT analysis stakeholders
  - Worksheet
- Forming Independent Steering Group
  - Explanation
  - terms of reference
- Electing a community Liaison Officer
  - Explanation
  - Job description & newspaper advertisment example



## Examples from the Toolkit Stakeholder engagement

FORMING AN INDEPENDENT STEERING GROUP (ISG)

#### COMMUNITY LIAISON OFFICER

#### Local Community Leaders

Many local members of the community would be valuable to have participating on the CLG. Community groups can be broken down into landowners. business owners, service providers and social groups. From each of these four groups, ideally one representative would be present. Depending on who is available within your community, you may not have access to this broad range, nor the interest from the community to participate. Therefore you may be forced to look wider than those outlined below.

#### Government Representatives

Local Council Representative

#### Media Representatives

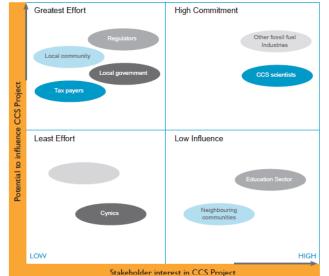
Journalists from local radio, television, newspaper, magazine.

#### NGO Representatives

Social and Environmental Groups which are active in the community.

This Community Liaison Working Group should be formed early as possible in the life of the project after the stakeholders have been identified. This ensures that the community have a visual point of contact to concerns to. By implement early in the project, it can a to act in a reactive manner media hype or propaganda with the project.

Ideally, this group will work with the CLO to meet, con and manage any issues raise community. Its main goal v ensure that the public are about all stages of the proje



portunity for an experienced Community Liaison **FINSERT ORGANISATON OR PROJECT NAME** ve working closely with a variety of stakeholders

communications role and act as the link between local nd project developers in identifying key issues and project objectives.

uires demonstrated experience in community

of the role include, but are not limited to:

riety of stakeholders

facilitating community meetings

f community enquiries

ation and feedback for stakeholders

tify and communicate grievances or issues

Land owners

Prominent land

owners in the area.

#### Educational

Teachers, principals

and deans from

local schools.

colleges and

universities.

Community groups



## Health profession

Church groups, such as the local Women's groups, indigenous and doctor, pharmacis minority groups.

**Emergency service** representatives such as fire brigad or police.

#### Stakeholder Group of the Media

Strengths

· The ability to widely distribute project information to vast audiences.

- · Lack of knowledge regarding technical information which can lead to misinformation being disseminated.
- · The exposure of information before formal announcements are made.

#### **Opportunities**

· Promote communication and engagement through various types of media sources.

#### Threats

· Disgruntled environmentalists contacting the media.

Weaknesses

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areas of

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## Content (3) Communication Plan

Insert a release date here (and time if needed)

#### Insert headline here [Needs to be attention-grabbing]

#### Insert body of text here

 The first paragraph should include the most important information, (who, what, where, when & why).

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## Communication experts!

A communication and engagement strategy should fit the context and be developed in an early stage of the project

#### What's in the Toolkit:

- Explanation
- Example
- Media release instructions
- Ideas for education about CCS

#### School Curricula

#### www.keystonecurriculum.org

Individual lesson plans and resources for primary and secondary school students centred on climate status investigation including sequestration, population growth, sustainability, and emissions. Within the keystone curriculum, the main topic of climate change is explored through different subjects such as Social Studies, Language & Arts, Science and Math. An example of what types of lesson plans are available for each subject is listed below.

#### Social Studies

Teachers provide a stakeholder grid for students to use when evaluating public perception about an issue.

#### Language & Arts

Students complete an activity to encourage them to think about creative ways to take personal actions to reduce GHG emissions.

#### Science

Students will determine if  $CO_2$  has mass through a scientific experiment.

#### Math

Students will illustrate the efficiency of different types of lighting in relationship to cost and light output through a wattage meter.

#### www.keystonecurriculum. org/highschool/2009\_lesson\_ intros/22\_WedgeGame\_HS09.html

Keystone has also developed a "Wedge Game" for high-school aged kids. This game helps players to explore the types and magnitude of energy technologies that will be required to address climate change while meeting energy demand.

## Examples from the toolkit Communciation plan & Project Timeline

## Communication and engagement Plan – Example

					YEA	AR I			YEA	R 2		Y	EAR 3			YEAR	4		YEA	AR 5			YEAR	6		YE	AR 7		YEA	R 8		
		To Note	Suggested Activities	1	2	3	4	1	2	3 4	4	1 2	3	4	1	2 3	4	1	2	3	4	L	2 3	4	1	2	3	4	1 2	3 4		
Influential Others					•							•				•																
Policy Makers	Federal; State	Includes environmental, health, minerals, energy, science, technology and innovation portfolios	Presentations to Government Departments – understanding by key government figures is integral to the success of the project and this group will need to be proactively target	/	,	·	\	,	,	, ,	, ,	, ,	′ ✓	1	1	, ,			1		1		,	,		1		1	,	,		
Politicians		Should be extended to all parties	Workshops for politicians and their researchers - Politicians have expressed an appetite for information on the topic of climate change and energy technologies. Need to run short sharp workshops to allow them time to ask questions and understand complexity of carbon issue			/		www.csiro.au					•	_		t -		Υ	ie	li	ne	е	fo	٦٢	^ (	C		S				
Financial, Insurance, Legal  I		meetings — host a series of breakfast meetings to target key stakeholders in this group. Small groups will allow for	,	,	,					Vat	ion	gy 1 al F	Rese	ear		d			5	tage	s and	d pro	cess	es tl	nat c	ccur	r dur	ing a C	CS pro			
	group - similar to government these groups will require specific information											ansfor			3	C	SIR		s	uit tl	he n	eeds	of t	he p			l can	be tail	ored to	best		
				studie	fy		Po	camine otential	pecific sit		po te Soda	sment of	thnical	1	and el repres	entativ	_	SI E	entify akehol	your		Establisi commu plan for stakeho	ders munity	Ongoing monitor evaluatio project	iring a ion of							
Media	National; State; Local		Workshops for journalists across Australia - proactive communication with this group is essential to ward against opportunities for misinformation. Small groups will be more effective and offers to transport them to the site while it is being developed will be essential	/	,	/	•				- Revi	lew liters		- Spires	locatio	esktop in relatio	١.	Seism Risk a Exami	testing	g ents existing	- 1	Establis indeper	en tatives	eering led	- Id st	entify y akeholo stakeholo stakeho	our lers thin lder ma	ap welof	public er and com activities - Develop commun	cation plan des dates	- Revisit communiand americand according	nicato
	International; National:	New Zealand and nearby Asian	Workshops for ENGO's across Australia - proactive communication		T									an	d feasib	at would	-	Baseli identi	nucture e surve y critica	nying	:	Advert	is e and o liaison o blish and	employ officer	in in - Pe	the pro	and intoject at	erest hand. T	key politi	riefings to cians and ent, public	- Continue meetings	k ue to h

## Resources

### The report is available at:

http://www.globalccsinstitute.com/resources/publications/communication-and-engagement-toolkit-ccs-projects

#### The individual case studies are available at:

http://www.globalccsinstitute.com/resources/publications/what-happened-barendrecht
http://www.globalccsinstitute.com/resources/publications/co2crc-otway-project-case-study
http://www.globalccsinstitute.com/resources/publications/carson-ccs-project-case-study
http://www.globalccsinstitute.com/resources/publications/futuregen-case-study
http://www.globalccsinstitute.com/resources/publications/zerogen-project-case-study



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## Interactive Activity

## Please join your pre-assigned group members at one of the workshop tables

Read through the scenario

Start to develop your group's Communication and Engagement Plan



## Scenario: IGCC Plant with CCS

You are a team of communication consultants who have been asked to scope a communication and engagement strategy for a new carbon capture and storage project.

The government today has confirmed funding for three new flagship projects. The company seeking your help is one of those flagship projects and has been allocated a large sum of public funds towards the project (2 billion euro or \$2.8b USD), for a new IGCC plant with CCS.

The project is proposing to store  $CO_2$  in a saline reservoir that is situated near where the new IGCC plant has been proposed but will include some 100kms of pipeline. The plan is to have the project up and running by 2015.

Until now the project is only known to key stakeholders and no one in the community is aware that this under development.

## Scenario: IGCC\* Plant with CCS

## Please consider the following questions:

- •Given the presentations today what might you need to consider in relation to preparing the communication strategy for this project?
- •Who do you need to talk to?
- •What are you going to talk to them about?
- •What might be the key messages for the projects?
- •When will you begin the process of communication for each of the groups you have identified?
- •What other considerations are needed to ensure the communication of the project is a success?
- •Do you want the job? Why or why not?

Please be prepared to present your responses to the rest of the participants.

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## Use your copy of the toolkit

## Communication and engagement Plan – Example

