

Stakeholder engagement for successful CCS deployment: Considerations and lessons learned

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Overview

- CSIRO and CCS social research
- Why engage and communicate about CCS?
- Findings from case studies
- Best practice guiding principles
- Suggestions for Japanese projects
- Additional resources
- Questions



CSIRO's CCS social research



CSIRO today: a snapshot

Australia's national science agency

One of the largest and diverse in the world

Ranked in top 1% in 13 research fields

Internationally recognised staff

Award winning talent

Building national prosperity & wellbeing



CSIRO related research portfolios



EnergyTransformed



AdvancedCoalTechnology



PetroleumandGeothermal



ClimateAdaptation



•Minerals
Down Under



Water for a HealthyCountry



•Food Futures



Preventative Health



•Wealth from Oceans



•Future Manufacturing



SustainableAgriculture



Light Metals

CSIRO's CCS Social Research

Energy Transformed Flagship

- Social research to understand energy preferences and inform engagement
- Founding partner of Carbon Dioxide Capture and Storage Social Research Network (C2S2RN)
- Followed by IEA Greenhouse Gas Research & Development Social Research Network

Partnership with Global Carbon Capture and Storage Institute

- International collaborations across 13 projects
- Japan Stakeholder Day, 19 November 2010
- Dr Kenshi Itaoka, Mizuho Information and Research Institute
- Dr Makoto Akai, National Institute of Advanced Industrial Science and Technology



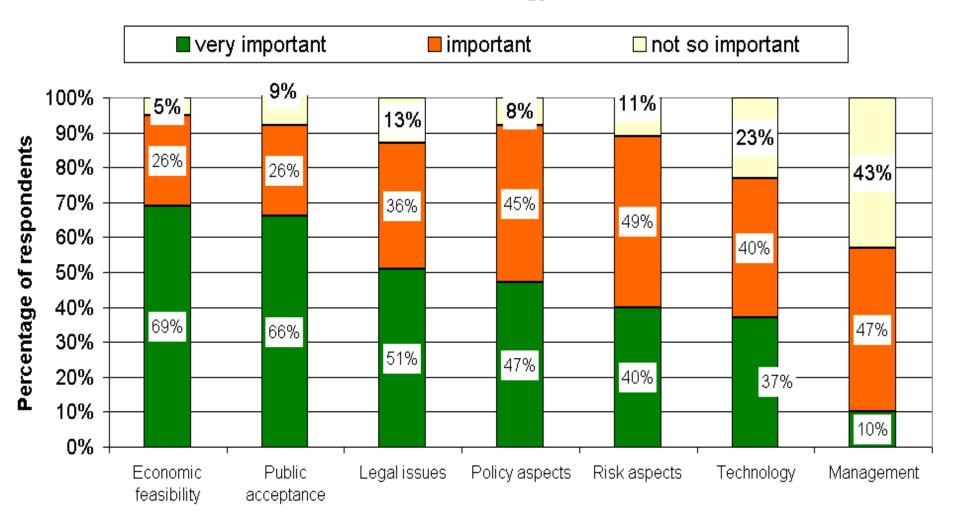
Why engage and communicate about CCS?



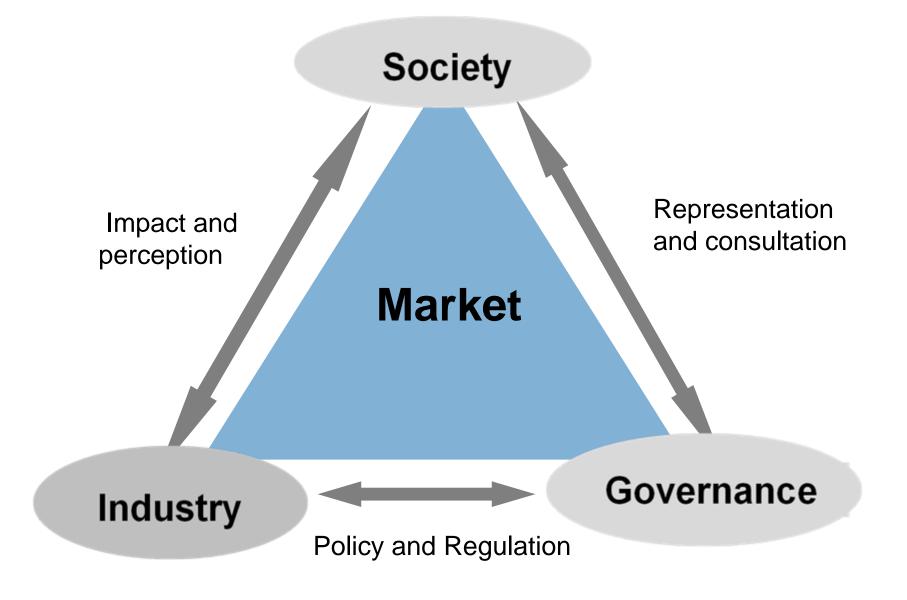
Public acceptance is important

Source: P.Ragden et al., Fraunhofer

What are the most relevant barriers to the implementation of CCS-technology in the future?



Industry does not exist in isolation



Specific Reasons

1. Response to regulation

Increasingly required by regulation and seen as best practice

2. Reduce perceptions of risk and increase support

- Once formed public attitudes can be slow to change
- Build trust and facilitate social justice
- The public will accept CCS, but not always. 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.

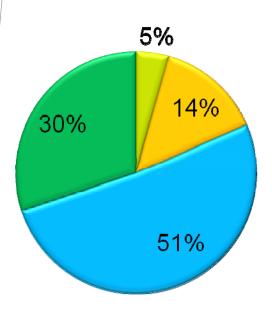
3. Create and sustain local benefits

- Message about both global and local benefits
- Identify local benefits and develop opportunity!



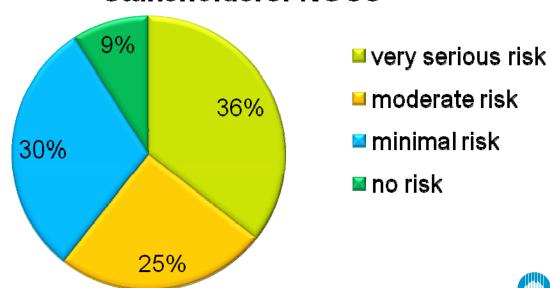
Perceived risks of CO₂ leakage

Stakeholders: energy industry



- very serious risk
- moderate risk
- minimal risk
- no risk

Stakeholders: NGOs





Considerations for a risk communication plan

- Compared to developers other stakeholders will likely view risk in a more expansive way
- 2. Non-technical risks may provide a greater challenge than technical risks.
- 3. Project developers should attempt to ascertain how community members view project risk:
 - Be open, respectful and responsive to the public
 - Be proactive in the sense of planning ahead about issues that could arise
 - Prepare for media interactions
 - Use appropriate visual aids and analogies to help communicate concept to the public and keep them simple



Findings from case studies



Japanese context

The importance of cultural identity

- Japan holds very different cultural views to that of other nations.
- These attitudes and views lie deep in the nation's history
- Meaningful social time for engagement may take longer but is important







Japanese context

The importance of cultural identity

- Local pride is very important and communities care a great deal about image and the way they are perceived.
- Sensitivity to environmental issues







Japanese Context

- Offshore onshore storage issues
 - Highly built up infrastructure makes it difficult for pipelines
 - Natural seismic activity that occurs in Japan is a challenge when discussing onshore injection
 - Leakage is seen to be a real threat hence offshore opportunities have been examined
 - Offshore injection strongly impacts on
 - fishermen who have mixed views
 - Property rights in certain areas



Japanese Context

- Local benefits of CCS projects
 - Need to closely examine each community
 - May not be many new local benefits for Japan
 - particularly the fishermen
 - Economic considerations may be important for some communities
 - Precedence with nuclear
- The role of NGO's in the debate
 - Local versus international presence



Global versus Local Benefits

Global picture

Build public confidence in the viability of using fossil fuel resources to meet increasing future energy needs while reducing CO₂ emissions through CCS. **BUT** at the same time there is a need to invest in renewable energy technology development. CCS must be presented as part of a portfolio of solutions to climate change, not seen as the only answer.

Local project

To assist with planning, building trust and confidence - an understanding of the technology, social context, ability to be responsive, commitment to transparency, avenue to in-depth knowledge within the community, and create support for future growth.

How do we define local benefits?

- Frame discussion around climate change and the energy portfolio
- Decisions are made collectively, NOT by responding to decisions made by others or one-byone
- Dialogue is had with a range of stakeholders across all levels - experts and non-experts
- What is important pros and cons
- Identify the value for each community and set of stakeholders
- Takes time, not a done deal and commitment needs to be maintained over time

Trust and procedural justice are critical



Elements of Trust

- What information is offered?
- Who is the messenger?
- What is the process being used?

Procedural Justice

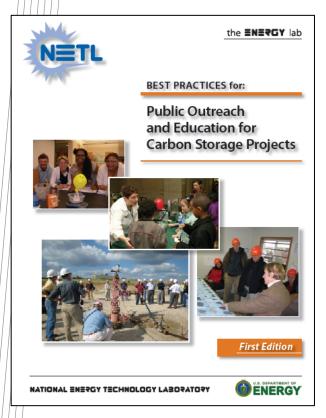
- •Will the process be **fair**?
- •Is it transparent?
- •Will anyone **listen** to us?
- •Can we have a say in what happens?
- •Who can I call?

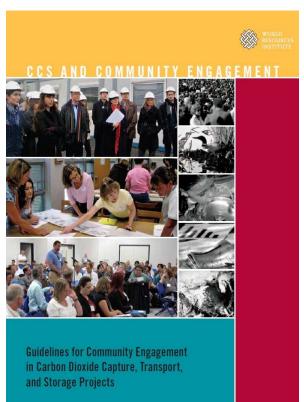


Best Practice – Guiding Principles



Guiding principles from best practice reports









DOE, 2009: Public Outreach and Education

for Carbon Storage Projects

Outlines 10 best practices

- Integrate public outreach with project management
- 2. Establish a strong outreach team
- 3. Indentify key stakeholders
- 4. Conduct and apply social site characterization
- 5. Develop an outreach strategy and communication plan
- 6. Develop key messages
- 7. Develop outreach material tailored to the audiences
- 8. Actively oversee and manage outreach through the life of the storage project
- 9. Continuously **monitor** the outreach program and changes in perceptions and concerns
- 10. Be **flexible refine** the outreach programs as warranted





WRI, 2010: CCS and Community Engagement

7 principles of effective community engagement

- 1. Prepare communities before engaging
- Determine what level of engagement is needed
- Integrate community engagement into each phase of the project cycle
- 4. Include traditionally excluded stakeholders
- 5. Gain free, prior and informed consent
- Resolve community grievances through dialogue
- 7. Promote participatory monitoring by local communities





WRI, 2010: Requirements of the engagement process

- 1. Understand local community context
- 2. Exchange information about the project
- 3. Identify appropriate level of engagement
- 4. Discuss risks and benefits of the project
- 5. Continue engagement through time





Requirements of the engagement process.

Key	Principles in CCS Cor	nmunity Engagement	and Roles for Each P	arty in the Process	
	Understand Local Community Context	Exchange Information about the Project	Identify Appropriate Level of Engagement	Discuss Risks and Benefits of Project	Continue Engage- ment through Time
REGULATORS	Learn community concerns. Determine, meet, and possibly improve public participation requirements.	Educate, respond to, and provide information to the public.	Establish a multistakeholder engagement process.	Require communication and contingency measures and regular updates during life cycle. Evaluate environmental and other impacts.	Require public participation at key stages and increase engagement in the process.
LOCAL DECISIONMAKERS	Understand community interests, identify leaders, and establish a dialogue early.	Contact developers early. Ask questions. Identify, seek, and publicize pertinent information about the project.	Determine engagemer level and establish a transparent process.	Ask questions. Identify and communicate concerns and clarify follow-up process. Insist on full disclosure.	Establish institutional memory, possibly a taskforce. Consider participating in monitoring and reporting. Regularly update the community.
PROJECT DEVELOPERS	Assess community dynamics and your historical presence. Weigh participatory engagement.	Engage early and develop a relationship with the community. Answer questions. Seek input, and provide information openly and transparently.	Foster two-way engagement; consult and negotiate with communities. Address concerns. Convey feasible level of engagement.	Answer questions. Discuss with community risks, benefits, uncertainties, and mitigation and contingency plans. Consider benefit sharing.	Engage community at each step of project schedule. Consider informal, long-term relationship to ease stewardship transition.

Communication and Engagement Toolkit

- To assist in the design and management of communctation 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
- Content:
 - Gathering social data
 - Stakeholder engagement
 - Communication plan





Communication and Engagement Toolkit



Suggestions for Japan CCS projects



Opportunities for Japan CCS projects

- Make use of these existing reports on best practice
 - Similar messages, instructions and principles in each
 - Process features and activities also apply BUT
 - Modify as required e.g. informal networks
 - Capture your process and lessons to inform your project overtime and other projects
- Share lessons and access support through the existing CCS social research network
- Design CCS projects to sustain and create local benefits



Opportunities for Japan CCS projects

Project Timeline for CCS

Regional site studies

Examine potential sites

In-depth assessment of potential site Form groups and elect representatives

Identify stakeholders Establish a communication plan for stakeholders Ongoing monitoring and evaluation of project

Identify storage areas

Identify specific sites within the area

Social and technical characterisation of potential site

Implement steering groups and representatives

Examine your stakeholders

Seek community consultation through public engagement and communication activities Continue to work with key stake holders, local community and internal stakeholders



- Review literature
- Estimate capacities
- Specific desktop research in relation to locations
- Examine approvals and feasibility studies that would be required
- Examine ways in which you can present information to the public to inform them of findings in relation to the site i.e. Media releases, websites etc.

- Seismic testing
- Risk assessments
- Examine pre-existing infrastructure
- Baseline surveying
- identify critical issues, impacts and benefits to the community through the collection of social data
- Examine fundamental views of the community looking at local empowerment and trust

- Establish an independent steering group with varied representatives
- Advertise and employ a client liaison officer to establish and maintain an effective relationship between the community and the project developers
- Identify your stakeholders through a stakeholder map examining the level of influence and interest in the project at hand.
- Perform a SWOT analysis of each of your stakeholders
- Develop a communication plan that includes dates and activities.
- Include briefings to key politicians and government, public displays of information, public meetings, newsletters, open days, workshops
- Revisit communication plan and amend according to feedback
- Continue to hold meetings/forums within community
- Provide regular updates on project
- Host open days to provide access and transparency to ongoing process of monitoring





Project timeline for Japan CCS projects

- 1. Regional site studies
- 2. Examine potential sites
- 3. In-depth social and technical assessment of potential site
- 4. Implement steering groups and representatives
- 5. Identify stakeholders
- 6. Seek communication consultation through engagement
- 7. Ongoing monitoring and evaluation of project



Step 3: In-depth social (and technical) assessment of site

- Seismic testing
- Risk assessments
- Examine pre-existing infrastructure
- Baseline surveying
- Identify critical issues, impacts and benefits to the community through the collection of social data
- Examine fundamental views of the community looking at local empowerment and trust

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	Į.		
Enhanced oil recovery			
Geothermal	V		
Solar farms		3 8	
Biofuels			
Other			

Have any si project?	urveys or research	been done pr	eviously in the	community in rega	rd to a large planned
YES	NO				

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	į.	0	

Step 3: In-depth social (and technical) assessment of site

- How has the community been subjected to large project proposals in the past?
- Have engagement activities been done with the community previously in regard to large planned projects?
- Have any locals or groups, websites, media or others demonstrated strong opposition or favouring of projects in the past or present?
 - Fishing and tourism industry, other petroleum developments
- Trust, empowerment, procedural justice?
 - Respect for local leaders
 - Organisational capacity of local leaders
- What do the community value what are or could be local benefits?
 - Jobs through fishing and tourism industry
 - Protective sense of place



Step 4: Establish an independent steering group

4.a. Establish an independent steering group with

Land owners



- Farmers
- Fisherman
- Holders of exploration and mining leases
- Business owners e.g. hotels

Educational



- School principals
- Science teachers
- University representatives

Community groups



- Indigenous leaders
- Religious leaders
- Environmental groups
- Local leaders for minority groups

Professional service providers



- Health professionals e.g. doctor or pharmacist
- Emergency service representatives



Step 4: Community liaison officer

4.b. Advertise and employ a liaison officer to establish and maintain effective relationships between the community and the project

COMMUNITY LIASON OFFICER

This is a diverse role and requires demonstrated experience in community consultation.

Specific responsibilities of the role include, but are not limited to:

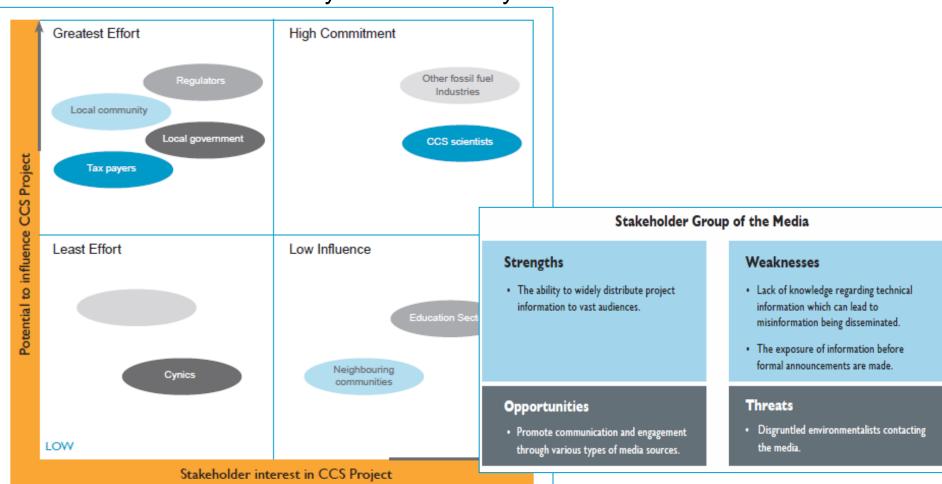
- •• Liaise with a variety of stakeholders
- •• Organising and facilitating community meetings
- •• The handling of community enquiries
- Provide information and feedback for stakeholders
- •• Effectively identify and communicate grievances or issues
- Communication skills in both English and Japanese
- Existing ties to local community

To succeed in this role you will likely have experience or qualifications in Communication, Education or Community Services.

Other relevant areas of experience will also be considered such as working with international aid organisations and developers.

Step 5: Stakeholder identification

5. Perform a SWOT analysis of each of your stakeholders



Step 6: Seek input through community consultation

6. Develop a communication plan that includes dates and activities.

Include briefings to key politicians and government, public displays of information, public meetings, newsletters, open days, workshops

Communication and engagement Plan – Example

					_	AR I				AR 2			YEAR	R 3			YEAR		\perp		EAR S		YEAR 6				YEAR 7				YEAR 8			
		To Note	Suggested Activities	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1 2	3	4	1	2	3	4	1 :	2 3	4	1	2 3	4		
Influential Others																																<u> </u>		
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	\	,	,	`	,	,	,	,	,	,		,		,		>		,			,		,	,		
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			,	,			,	,			,	,			,			-				,	-					,			
Financial, Insurance, Legal	International; National		Personal invitations CEO breakfast meetings — host a series of breakfast meetings to target key stakeholders in this group. Small groups will allow for more interactive discussion and dialogue	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,		,		,		-	,		,	,		
			Individual presentations to stakeholder group - similar to government these groups will require specific information around which to base their decisions	,	,	,	,	/	,	,	,	,	,	,	,	,	,	,	,															
			Keynote speaker roles at international conferences - interest in the development of these technologies is global and therefore investment should not be limited to Australian waters		GHGT9		As	As Appropriate		ate		GHGT10			As	Appro	opriat	te	GI	HGTI		As	Арр	ropria	xte.	As A		oriate	As	Approp	riate			
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	,	,	,	,	,	•	,	,	/	,	,	,	,	,	,	,				,				,			,				
Environmental NGOs	International; National; State;	New Zealand and nearby Asian countries should	Workshops for ENGO's across Australia - proactive communication with this group is essential to ward																															

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Step 6: Seek input through community consultation

Public meetings and workshops

- Where to be held?
- Who to invite?
- How should information be shared?
- What experts should be present?
- What questions and discussion points should be prepared?

Informal networks and communications

 Identify and cultivate e.g. word of mouth between local business owners





Additional resources that may be helpful



Social Site Characterisation



Social Site Characterisation: From Concept to Application

A review of relevant social science literature and a toolkit for social site characterisation

This report was prepared for CSIRO by: Sarah Wade (AJW Inc, USA) and Sallie Greenberg (USA)

June 2011







Conducting social site characterisation

- What are the information needs?
 - If missing information will seek from those around them, particularly those with similar views or those they trust
 - Frequent misconceptions: understanding of scale, pressure effects, nature of storage space
- What are the concerns and perceptions?
 - Not always technical risks but broader social factors
- What are the best options for outreach and engagement?



Communicating the risks of CCS



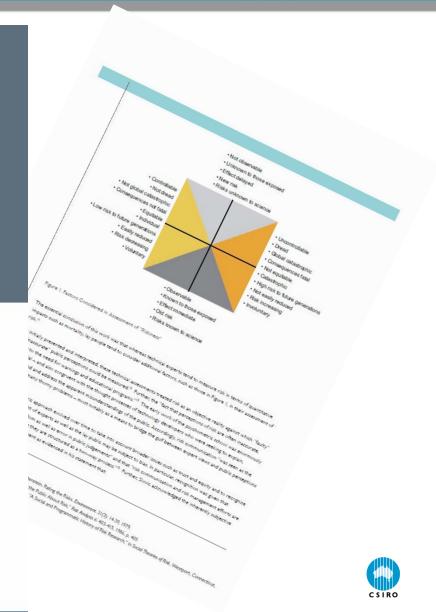
JULY 2011

Judith Bradbury Sallie Greenberg Sarah Wade, WADE, LLC



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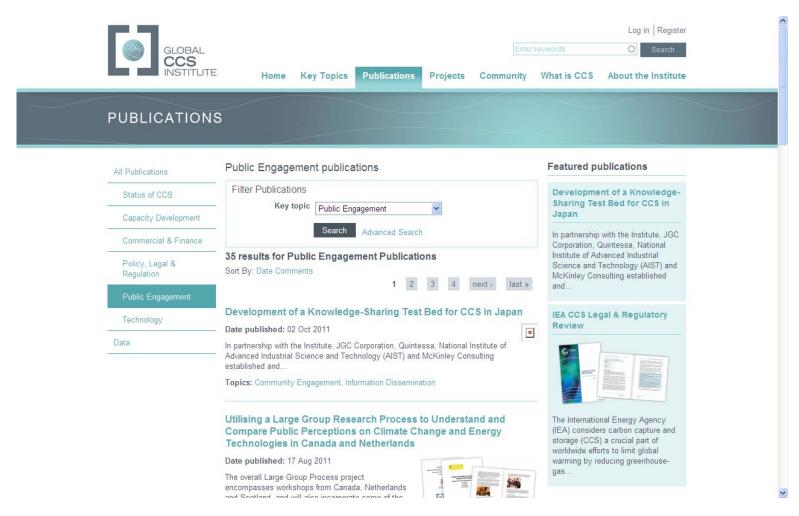


Key findings:

- Recognise the risks to the project are likely broader than the technical risks and commit, up front, to a comprehensive plan to address them
- Be open respectful and responsive to the public
- Be proactive in the sense of planning ahead about issues that could potentially arise
- Prepare for media interactions
- Use appropriate visual aids and analogies to help communicate concepts to the public and keep them simple csiro. Science into Society Group



http://www.globalccsinstitute.com/publications Public engagement





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