





Task 28 Objectives & Expected Results

- Ensuring diverse participation from a larger number of countries and a variety of researchers and social scientists interested in the responsible and appropriate deployment of wind projects;
- Adopting new methods of knowledge sharing based on more proactive involvement of Task participants;
- Maximising the value of the Task outputs through engagement of end users and broad systems thinking;
- Exploration of increasing the Task's reach to emerging economies and to help with the global energy transition;



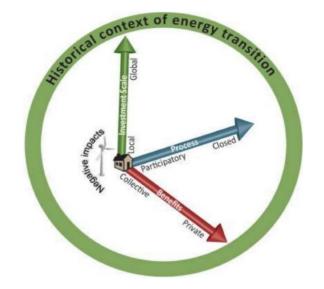




Technical Results

What is your attitude toward the local wind project now?

4% <mark>4%</mark>	34%	32%	25%
ery Negative	Neutral	Positive	Very Positive
	(0)	(1)	(2)



Sample Publications

- 1. Rand, Hoen, Hübner and Lantz. <u>National Survey of Attitutdes of Wind Power Project Neighbors</u>, Overall Attitudes: Suummary Results (November 2019)
- 2. Baxter, J., Walker, C., Ellis, G., Devine-Wright, P., Adams, M. and Smith Fullerton, R. (2020). Scale, history and justice in community wind energy: An empirical review. Energy Research and Social Science, 68, 101532.
- 3. Hübner, G. (2020). Citizen participation for wind energy: experiences from Germany and beyond. In O. Renn, F. Ulmer & A. Deckert (Eds.), The role of public participation in energy transitions (pp. 179-221). London: Elsevier.
- 4. Cousse, J. Wüstenhagen, R. Schneider, N. (2020) **Mixed feelings on wind energy: Affective imagery and local concern driving social acceptance in Switzerland**
- 5. Batel, S. and Devine-Wright, P. (2020) **Using NIMBY rhetoric as a political resource to negotiate responses to local energy infrastructure: a power line case study**. *Local Environment*, 25, 338-350.



Sample of Deliverables

Phase III deliverables were completed in spring of 2020, including a series of fact sheets on social acceptance topics (health, annoyance, noise, viewshed, etc.) for public officials, developers, and other stakeholders.

Collaborative international <u>webinar</u> on social acceptance of offshore wind by Japan, Germany, US, and the UK (winter 2019) now has 500 views.

- Wind turbine audibility and noise annoyance in a national U.S. survey: Individual perception and influencing factors co-authored by Gundula Hübner and Johannes Pohl, Germany, Joe Rand, and Ben Hoen, Jeremy Firestone, T. Ryan Haac, Matthew Landis, and Debi Elliott, USA.
- Understanding community acceptance of a potential offshore wind energy project in different locations: an island-based analysis of place-technology fit, by Devine-Wright & Wiersma. February 2020.
- Demonstrating a genuine commitment to fair-play wind energy projects, by J. Aston, Ireland.
- Individual or Collective? Community Involvement, Local Taxes, and the Social Acceptance of Wind Energy in Switzerland, by Pascal Vuichard, Switzerland (2020)

May 2021: Publication of best practice guidelines on Offshore Wind Farm Project Community Acceptance and Stakeholder Engagement, from participating member countries. (Garry Keegan, Ireland)



Outreach, Dissemination, and Industry Participation

Industry is involved in Task 28 in every member country.

- Denmark representatives have collaborated with developers (including on conference presentations) to advance the WIND2050 Project. "Wind Farm Developers: a typology of acceptability" at the 11th International Sustainability Transitions Conference, 21st August 2020.
- Garry Keegan consulted with Irish grid developer EirGrid on community acceptance and public participation.
- Jamie Baxter presented *Social Science of Wind Energy Acceptance* to the Canadian Wind Energy Research Network. (2021)
- Members serve on Irish Government Advisory Group for community aspects of offshore wind
- Irish representatives conducted knowledge exchange survey about offshore wind social acceptance.
- In the UK, Task 28 participants with MISTRAL hosted online symposium on social acceptance and the energy transition with 93 attendees.
- Patrick Devine-Wright consulted with IPCC on social acceptance of climate mitigation technologies including wind.
- The U.S. Department of Energy convened developers and academics (including Tegen and Rand) to develop their wind energy stakeholder engagement strategy.
- Task 28 representative in Japan serves on Wind Energy Zoning Council in Akita.





Additional Publications and Presentations

• Maruyama, Yasushi. 2021. *The Governance of Renewable Energy Projects and Expanded Distributive Justice*, in Miyauch and Fukunaga eds., Adaptive Participatory Environmental Governance in Japan: Local Experiences, Global Lessons, Springer (book <u>in print</u>).

• Devine-Wright & Wiersma. 2020. <u>Understanding community acceptance of a potential offshore wind energy project in different locations: an island-based analysis of place technology fit.</u>

analysis of place-technology fit

 Current research (Jan Hildebrand, Germany): Accelerating the energy transition by expanding the financial participation of municipal and private stakeholders.

- MISTRAL training the future social science-renewable energy workforce
- WESC 2021 Conference join us!





Task 28 Members

	Country	Participant	Organization		
1	Ireland	Garry Keegan (JOA) Geraint Ellis, Queen's University Belfast	www.ipc10.com Sustainable Energy Authority of Ireland		
2	United States	Suzanne Tegen, Center for the New Energy Economy (JOA) Joe Rand, Lawrence Berkeley National Laboratory	Colorado State University		
3	Germany	Gundula Huebner, MSH Medical School Hamburg & University Halle-Wittenberg Jan Hildebrand, IZES gGmbH, Saarbrucken	Federal Ministry for Economic Affairs and Energy Federal Ministry for Economic Affairs and Energy		
4	Switzerland	Pascal Vuichaurd (through 2020)	Swiss Federal Office of Energy		
5	Japan	Yasushi Maruyama, Nagoya University	National Institute of Advanced Industrial Science and Technology		
6	Denmark	Kristian Borch Tom Cronin David Rodolph	DTU Wind Energy Technical University of Denmark Department of Wind Energy		
7	Canada	Jamie Baxter	Western University, Canada		
8	Finland	Lasse Peltonen	Akordi		
		7			

Observers: United Kingdom, Sweden, Norway, Netherlands, Wind Europe

Administrative Updates

Participation

 Participation Changes: Portugal lost funding end of 2019, but we are looking for another Portuguese member. Gained Sweden (observer) 2020. UK and Norway are hoping to join as official members this year.

Budget

- Task Annual Budget: 64,000 Euros/year
- Participation Fee (2020) = 8,000 Euros/year
- Overall Budget Status:



Thank you for the new and improved website! We are making progress. $oldsymbol{8}$



Work Plan Status

- WP1: \(\cappa\) Innovations in value additions and benefit schemes
- WP2: O Understanding costs associated with community engagement and opposition
- WP3: New and emerging issues in social acceptance (e.g. supersized turbines)
- WP4: \(\cappa\) Increased global engagement and knowledge exchange
- WP5: Offshore Wind Working Group on social acceptance

Other Information/Issues

Many Task members are working on trending and important topics in their own countries, such as energy justice and the energy transition.

Other groups from IEA Wind TCP (41, 39) and elsewhere have reached out to collaborate on knowledge sharing and dissemination.

To assist member countries in meeting climate and energy goals, it would be beneficial to collaborate with researchers in and on emerging economies. Please contact us if you're interested in joining this task.

People are important. Think about them when you design and install wind technology. Thank you.