

Increasing International Collaboration Innovation Challenges (ICs)

ICs are global calls to action aimed at increasing collaboration and accelerating innovation in priority technology areas.



IC1: SMART GRIDS

CO-LEADS



18 MEMBERS INVOLVED

IMPACT: Smart Grids Innovation Accelerator launched to provide a platform to share best practice and success stories. IC1 and the International Smart Grid Action Network ISGAN announced collaboration to align innovation and deployment activities.



IC2: OFF-GRID ACCESS TO ELECTRICITY

CO-LEADS



17 MEMBERS INVOLVED

IMPACT: France is investing €1.8 M in 9 projects in Africa to support various renewable technologies. Winners of the \$5 M Indian off-grid competition are collaborating with organisations from 9 MI members to improve energy access.



IC3: CARBON CAPTURE, UTILISATION AND STORAGE

CO-LEADS



18 MEMBERS INVOLVED

IMPACT: New funding including: \$30 M from the US Department of Energy; \$35 M for Accelerating CCS Technologies consortium involving 9 MI members; and \$38 M for industrial CCS in the EC indicative budget.



IC4: SUSTAINABLE BIOFUELS

CO-LEADS



12 MEMBERS INVOLVED

IMPACT: China has allocated \$62 M to international collaborative sustainable biofuels projects with 7 MI members, whilst India has funded projects with involvement of researchers from 9 MI countries.



IC5: CONVERTING SUNLIGHT

CO-LEADS



19 MEMBERS INVOLVED

IMPACT: €5 million Artificial Photosynthesis prize from the EC to develop a bench-scale artificial photosynthesis prototype and new funding from India and through the German Federal Government's 7th Energy Research Programme.



IC6: CLEAN ENERGY MATERIALS

CO-LEADS



15 MEMBERS INVOLVED

IMPACT: IC6 has held: 15 international activities in 10 countries on 3 continents, been profiled in Nature Materials Reviews and Forbes Magazine and launched the CAD\$8 M AI proof-of-concept project, Ada, in Canada.



IC7: AFFORDABLE HEATING AND COOLING OF BUILDINGS

CO-LEADS



18 MEMBERS INVOLVED

IMPACT: New projects include the "Comfort and Climate Box", to develop an integrated heating, cooling and storage solution and the Global Cooling Prize to develop air conditioning with 5x less climate impact.



IC8: RENEWABLE AND CLEAN HYDROGEN

CO-LEADS



13 MEMBERS INVOLVED

IMPACT: The "hydrogen valleys" concept, combining several hydrogen applications into an integrated system in a geographical area, has been chosen as a priority to demonstrate potential and a pathway to scale.