

Women Leaders Using Technology as an Innovations Lever



PERFORMATICA
STRATEGY · OPERATIONS · TECHNOLOGY · ALLIANCES

Dec 19th, 2023

10 AM CST (USA) / 930 PM IST (INDIA)



Sushma Bhan
Panelist

SPE International Technical
Director, Data Science &
Engineering Analytics



Alma Del Toro
Panelist

Co-Founder and Co-President, Blue
Wave Supplier Development
Platform



Rwitwika Bhattacharya
Panelist

Chief Executive Officer,
SWANITI



Vauhini Telikapalli
Panelist

Global Business Development
Manager – Hydrogen Mobility
and Energy Business



Section	Topic	Speaker/s
Introduction	Performatica & Energy Transition Perspective	Dr. Chitra Divakaruni
Leadership in Digital & Energy Transformation	Digital & Energy Transformation using Technology	Sushma Bhan
Insights from Managing Global Supplier Development and Engagements	Managing Supplier Development & Alliances	Alma Del Toro
Managing Global Business Development in Renewables	Scope and Challenges in Hydrogen Mobility and Energy Business	Vauhini Telikapalli
Social & Community Innovation Program Execution	Managing Social Innovation & Climate Support Programs	Rwitwika Bhattacharya
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Key Takeaways	Summarize and Next Webinar	Murthy Divakaruni

Energy | Manufacturing | Utilities



Consulting+
Technology solutions
team from Fortune
500 and Tier I
IT/ITES Firms

Members from
consulting,
technology and
operations provide
an **all-inclusive
perspective** at an
engagement level

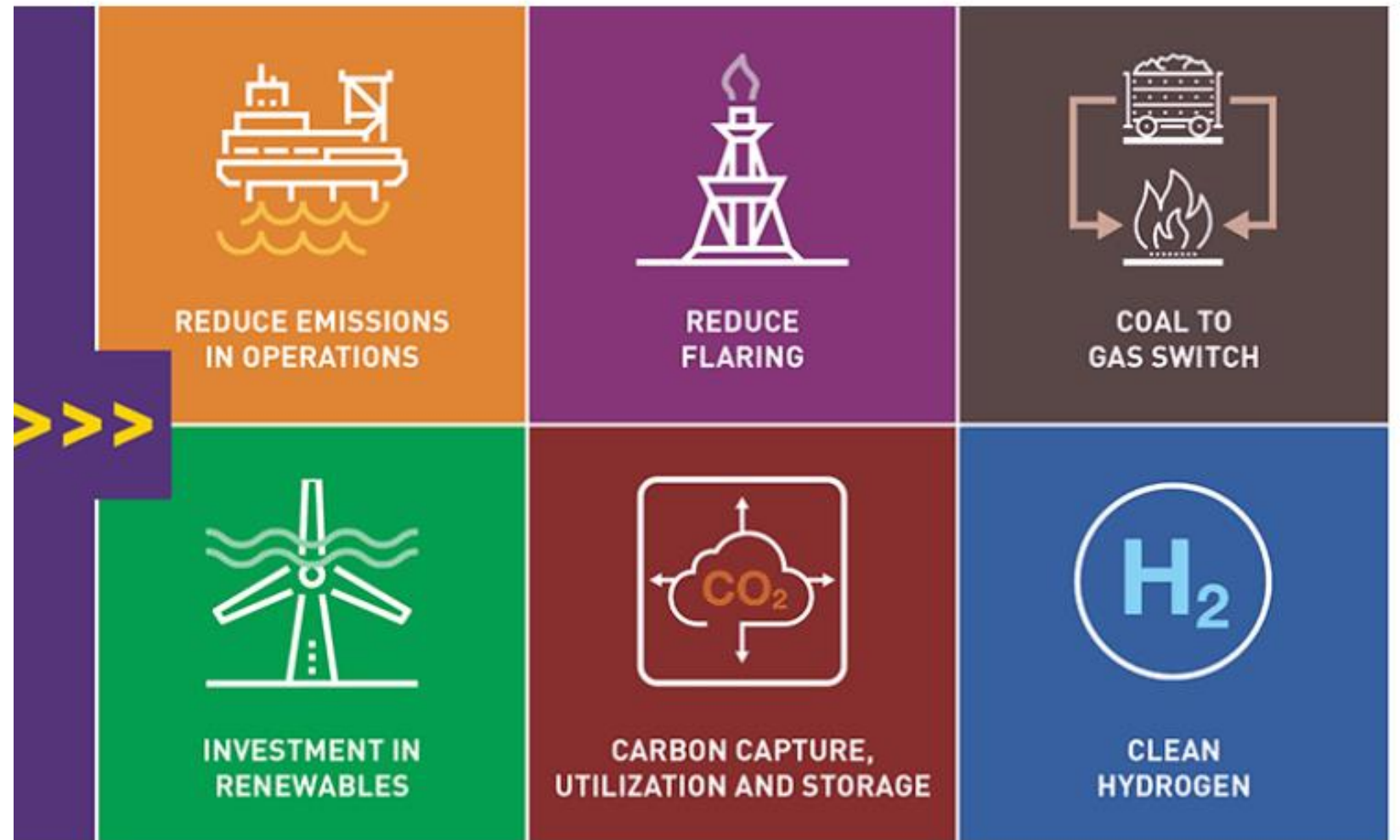


**Design thinking
and Change
Management** at the
core of any proposed
solution

Leveraging **low-
code/no-code
platforms for MVPs**
as part of our
engagements



Energy Transition Tracks for Oil & Gas Companies



Source – iogp.org (International Association of Oil & Gas Producers)



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Career Journey's Key Pointers

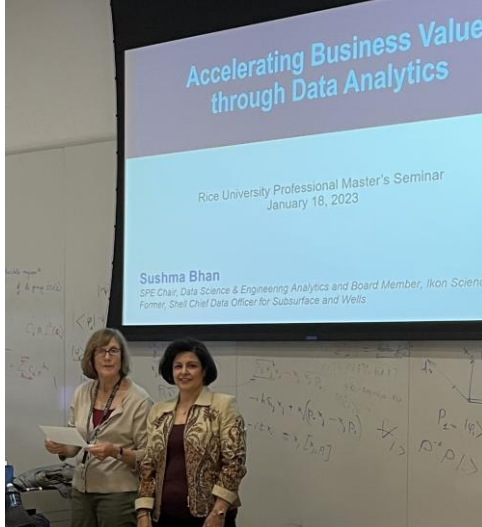


- **Continuous learnings:** IT to Business, Data leadership (XMP4, IBM 360/370 to C, C++, Java, ... global data, standards, AI)
- **Organizational understanding:** Knowing customers, stakeholders, decision makers and your own team
- **Future strategic direction alignment:** Value of Data & Analytics, establishing it in Shell, guiding it in Ikon Science, leading SPE consortium
- **Risk taking:** New businesses, dealing with unknowns
- **Confidence and Trust:** alliances with leaders, peers and subordinates, across companies and organizations
- **Technical to Business, and Hybrid:** E-MBA, publishing technical papers, leading people, processes and projects
- Expanding **local to global**, from Houston while managing family is doable
- **Achieving Results:** relentless focus and commitment to delivery & value – results and reliability builds credibility
- **Giving back:** leading Youth org, SPE, IACF & help Kashmiri students' education – supporting women and young professionals



Shell Production Computing Operations, Exploration, Project Management, R&D, Upstream to Downstream, Expert & Data leadership to Chief Data Officer – 30+ years career

Continuing within the Data Sciences & Analytics domain: corporate Ikon Science and non-profit SPE Board, Rice University PSM board roles – Ongoing



Ways to Accelerate Business Value



Data centric process and workflows



Customer-centric approach



Showcase small successes



Get business buy-in and build communities of data practitioners



Set metrics and check-points

Women as Leaders need ...

- ❖ Communications ... share ideas, visibility
- ❖ Connecting the dots ... strategic thinking
- ❖ Commitment ... delivering value
- ❖ Collaboration ... alliances and networks
- ❖ Courage and Confidence with EQ ... knowhow and expertise matters
- ❖ Compatibility and adaptability ... dynamic business culture, new learnings

to believe in yourself



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Managing Global Supplier Development and Alliances

My Journey - Alma Del Toro



Legal & Business
Multicultural, make us flexible
Understand Context & Strategy
Executive Sponsors
Know what you want and **GO FOR IT**
Know yourself and follow your **True North**
Authentic, Genuine and Adaptable
Strategic Partnerships
Leverage experience, knowledge & networks
Help every time you can, open doors for others
Have a Clear Purpose

Managing Global Supplier Development and Alliances

Developing Business & Communities

Changing the world, one supplier at a time.
 Transforming the landscape across industry sectors using technology as an enabler providing a scalable and accessible solution!



Collaboration among governments, NGOs, international companies and local suppliers

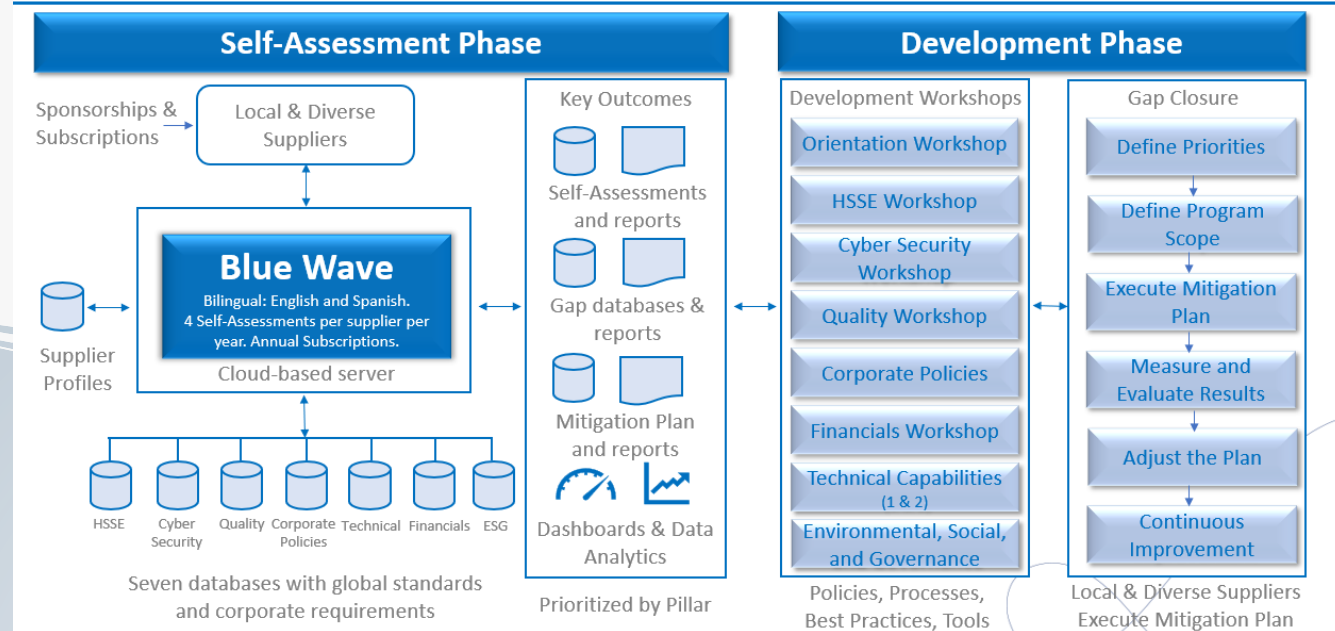


Transferring technology and knowledge = local economic growth, equity



Contributing to the United Nations sustainable development goals

Technology is providing a scalable and accessible solution



Managing Global Supplier Development and Alliances

Making a Difference around the world

- Creating opportunities, helping suppliers understand how to transfer their capabilities to Renewal Energies
- Helping local and diverse suppliers understand the international standards required by major corporations, we develop them to compete for higher added value business opportunities.
- Supporting emerging Countries develop local content working with IOCs, NOC's, Governments and NGOs.
- Helping Countries develop local development Policies.



Using Technology as an Innovations Lever to Create Equity!



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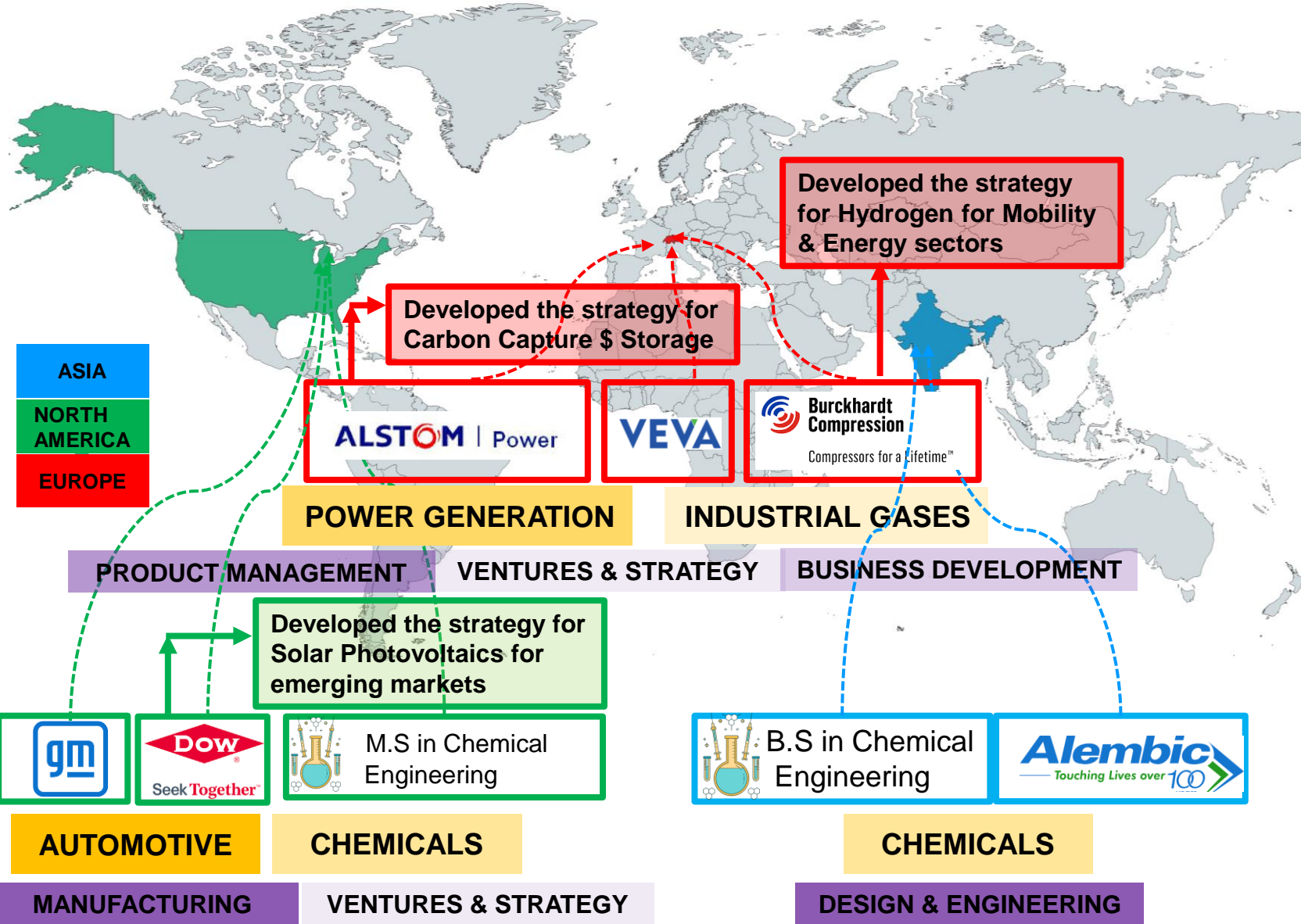
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My Journey & Key Takeaways

3 continents..4 Industries..5 Functions



KEY TAKEAWAYS

- CLARITY & INTEGRITY
- CURIOSITY & CREATIVITY
- CRITICAL THINKING
- CONTINUOUS LEARNING
- COMMUNICATION
- CONFLICT MANAGEMENT
- COLLABORATION

Scope & Challenges in Hydrogen Mobility & Energy Business

WHY HYDROGEN & WHY NOW?

Needed to keep the 1.5° C goal in reach by 2050

Enables decarbonization of hard to electrify sectors such as iron and steel, fertilizers & other heavy industry.

Manufacture fuel cells for future mobility sector as an alternative of fast fueling compared to E-vehicles.

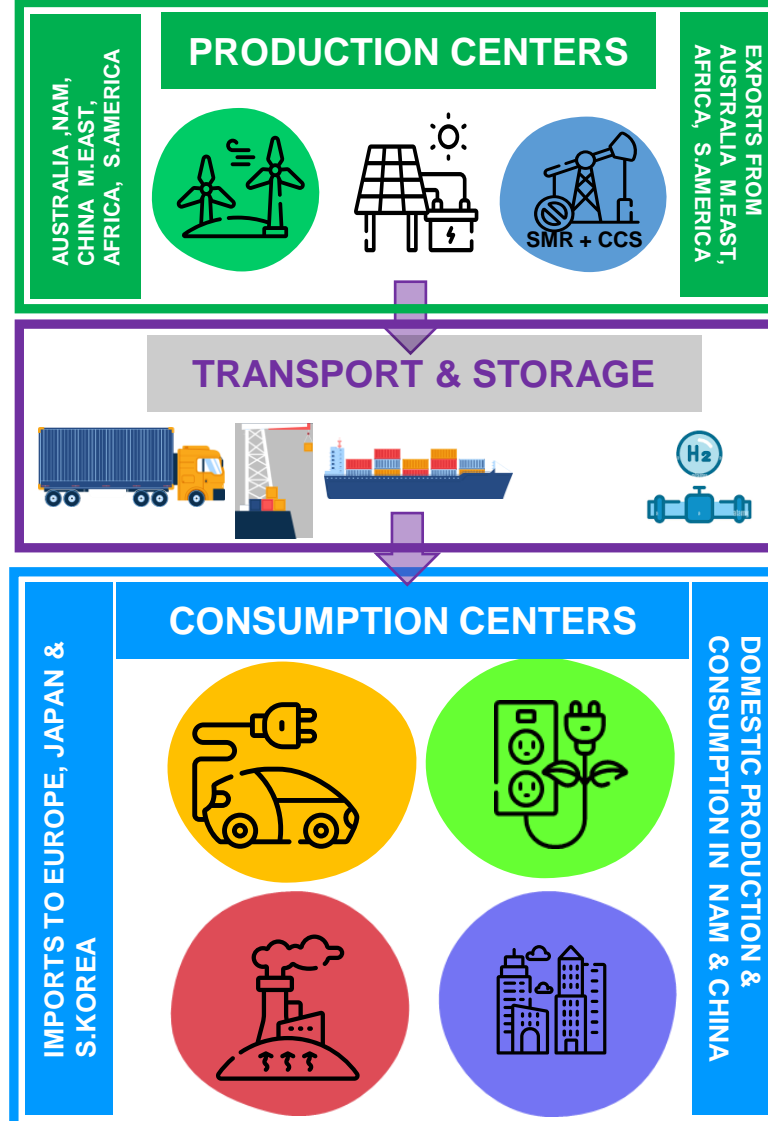
Can be transported as gas or liquid or as a different chemical carrier (ammonia & methanol) to high demand regions.

Enables large scale integration of renewable electricity into the energy system by providing long term energy storage.

Clean feedstock for Industry (refineries, petrochemical and chemical sectors).

Cost effective means of heating decarbonization using existing natural gas pipeline infrastructure

SCOPE & APPLICABILITY



CHALLENGES



High Investment costs
\$ 460B in 2030.



Scale competitive supply
Hydrocarbon rich countries to scale up blue and green hydrogen production .



Stimulate local demand
Need for local market in addition to exports. Decarbonization regulations and clean air to stimulate local demand.



Develop transport infrastructure
Both expensive and technically challenging.



Cooperation across value chains customers and countries
Require long term off take agreements between customers and producers and intergovernmental partnerships.

Future of Energy Transition & Opportunities

- ✓ Fossil fuel demand is projected to peak soon but the outlook remains uncertain
 - Sharp decline in coal demand is expected
 - Natural gas and oil are expected to grow further in the next few years and remain a core part of the world's energy mix
 - Natural gas demand projected to increase driven primarily due to renewable - based power generation until batteries are deployed at scale
 - Total demand for oil projected to grow this decade and almost halves in 2050
 - Electrification of transport sector
- ✓ Renewables will make up the bulk of the power mix by 2050
 - Expected to provide 45-50 percent of global generation by 2030 & between 65 and 86 percent by 2050 driven primarily by their cost competitiveness
- ✓ Major investments in the energy sector will be needed but remain stable as a share of GDP
 - Projected to grow between 2 and 4 percent per annum to reach between \$2T to \$3.2T in 2040
- ✓ Unlocking critical energy transition technologies, key bottlenecks need to be overcome but can provide significant opportunities
 - Potential bottlenecks include land availability, energy infrastructure, manufacturing capacity, consumer affordability, investment willingness and material availability



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Execution for Social Innovation & Climate Support Programs

- 135 million people living in extreme poverty in the global south will be affected by the climate crisis.
- 80 percent of all displaced people because of the climate crisis will be women.
- Swaniti's work in Chhattisgarh and Jharkhand, mining belts of India, is telling about the climate-migration crisis of the global south.
- But women go from victim to entrepreneur.....



From crisis to opportunity: Creating green businesses

Unlocking
government
funding



Scaling up
businesses
successfully

Making existing
business strategies
sustainable



Needs and opportunities at the intersection of tech and climate









Tremendous potential of women entrepreneurs in grassroots communities but...

- Limited access to capital to scale
- Mentorship and knowledge support on ground
- Access to improved technology tools
- Ability to respond in a timely manner



- Panel Discussion

Moderated by Dr. Chitra Divakaruni

			
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Generate the Platform
Strategy with Product
Roadmap & Milestones

Design **Platform** CoE &
Run the
Operations/PMO Office

Manage & Monitor
Technology Licenses and
the Cloud Partners

Develop & Monetize
from the
Alliance/Partner
Ecosystem

Thank You



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