



G-Cloud 14

Service Definition - Wipro Net Zero Transition and Management (Energy, Technology Products, Technology Services)



Wipro Net Zero Transition and Management (Energy, Technology Products, Technology Services)



Features

- Craft tailored decarbonisation roadmaps and evaluate investment options
- Implement digital platforms (cloud, IOT, analytics) to collect granular data
- Assess energy efficiency across process, asset, facility and operator/user actions
- Identify efficiency improvement opportunities leveraging AI/ML and advise implementation approaches
- Assess decarbonisation options combining renewables, electrification, carbon credits as appropriate
- Implement centralised monitoring and control solutions for large renewable farms
- Provide process and system consultancy on transition to hydrogen
- Provide energy management solution integrating solar, battery, EV and assets
- Provide decentralised energy market solutions like peer-to-peer trading and microgrids
- Monitor and assess water usage, waste generation and circularity



Benefits

- Reduces carbon emissions and aligns with global compliance standards
- Accelerates return on sustainable investments and mitigates financial risks
- Helps identify emissions hotspots through precise tracking of resource usage
- Improves energy and material efficiency, reducing operational costs
- Boosts process and operator efficiency, reduces operational costs with AI/ML
- Lowers TCO of renewable adoption through right mix and size
- Identifies best options for green energy purchase and carbon credits
- Promote cleaner transportation with efficient electric vehicle management
- Promotes water conservation and supports sustainable management
- Promotes new revenue streams through innovative green energy services

Zero Transition Management

Transforming your extended value chain to reduce your natural resources impact

Our approach starts with analyzing the current state, designing the future state, and sustaining the momentum. Wipro has the experience to help you navigate the complexities of designing net zero pathways, low carbon fuels, e-mobility, water efficiency and more. Our consultants have deep expertise in energy transition and efficiency improvement across all industry domains especially the energy intensive ones (Oil & Gas, Utilities, manufacturing, telecom, retail) plus awareness and competency on local regulations.

Let our team lead and manage your challenges through the lifecycle of consulting, implementation, and support; while leveraging the right platform to bring in global best practices & outcome certainty



Zero Transition Approach & Roadmap

Develop transition roadmap at operations level by assessing usage and **emissions hotspots across the value chain**, evaluating various **transition options** for cost, time and effectiveness and taking consideration of internal capabilities.

Resource Impact Analysis Services

Understand resource usage, emissions and waste at deep **operational level** by leveraging **IOT and Digital** to understand areas to focus and gain situational awareness to improve real time efficiency of processes and actions

Usage Reduction and Efficiency Services

Services to reduce resource consumption by applying **data and analytics** to identify opportunities at the cross section of **asset, process and people** and provide possible efficiency solutions around asset health, process simplification and improved operator practices.

Decarbonization Services

Solutions to help customer change their **energy mix** to increase low carbon share, implement renewables, support **electrification** efforts, transition to electric vehicles and provide guidance on selecting appropriate **offset** measured to reduce remaining footprint

Sustainable Water Services

Services to enable industries, facilities and cities/communities to be **water resilient, reduce environmental impact**, reduce impact on business due to weather events and provide capabilities to manage water resources and community with transparency

Zero Transition Services



Zero Transition Roadmap

Support roadmap development for reaching Net Zero goals by:

- Carrying out **resource intensity analysis** and baselining
- Forecast, simulate and model **transition pathways**
- Implement pilots and evaluate options to help **develop business cases** for investment
- Create **Transition Roadmap** with high level project plan and benefit analysis



Resource Impact Analysis Services

Gain end to end resource usage visibility to understand impact:

- Collect sustainability data at granular operational level that can be **aggregated at each level for impact analysis**
- Improve **situational awareness** by tracking usage, emissions, waste and raise alerts for operators on breach of limits
- **Integrate, manage and publish** sustainability data for impact reporting and modelling



Reduction and Efficiency Services

Resource usage and cost reduction through efficiency uplift by:

- Correlation of resource data with process data to improve **process efficiency and opportunities**
- Identification of **opportunities** at the **intersection of process, asset and operators** by leveraging data analytics and AI/ML
- Implementing solutions for **operational monitoring, usage & cost reduction, behaviour change and digital enabled automation**



Decarbonization Services

Adopt and transition to low carbon resources to reduce cost and carbon:

- Business case development for local **low carbon options (e.g, rooftop solar, heat pump)** & its operations & optimization
- Advisory on selection and purchase of **Renewable Energy Certificates & Carbon offsets**
- Services on **fleet electrification, EV data analytics** and grid integrated carbon reduction services



Sustainable Water Services

Actively support water and wastewater impact reduction by:

- Water **usage** monitoring, **circularity** assessment, water **stress** impact assessment and regulatory **reporting**
- Weather event **risk modelling** and business continuity planning
- Reducing **energy and chemical** usage in treatment plants through efficiency improvement
- **Watershed and biodiversity** impact assessment due to wastewater spillage events

Tools

- CTAP
- Impact Intelligence
- Carbon Value Modelling

- Wipro IOT Framework and Architecture
- Impact Intelligence

- Wipro MiQ (nextgen) Platform
- Wipro Digital Twin
- Impact Intelligence

- Fleet transition process model
- EV data model and integration
- Energy Management Platform

- Treatment plant digital twin
- Impact Intelligence
- MS Satellite Imagery analytics solutions

Decarbonization Services

Low Carbon Fuel Transition

- Business case development for local low carbon options (e.g, rooftop solar, heat pump)
- Advisory on low carbon energy sourcing options (PPA, green rates, RE Certificates)
- Operation and Optimization of low carbon energy use including battery storage
- Yield improvement for large renewable plants

Fleet Electrification

- decarbonization advisory & discovery
- Fleet fuel cards re-imagination & card data management
- Carbon intensity reduction, telematics advisory, vehicle, driver monitoring, predictive maintenance
- V2G & EV analytics solutions

New Energy Model Services

- Device integrated premise (solar, battery, EV, appliances) with active energy management
- Decentralized Energy Market at the edge of the grid using Peer to Peer energy sharing
- Vehicle to Grid services
- Support for microgrid solutions

Digital Enabled H2 Value Chain

- Renewable production forecasting
- IT Ops and support for production
- Operational and commercial management of storage
- Supply chain and marketplace setup (including gas replacement)
- Carbon tracking and monetization

CCUS Services

- Carbon capture and storage technology consulting, implementation and operations – including lifecycle estimation, carbon storage complexity, monitoring, and losses involved in CCS
- Integrated carbon cycle management tools (IoT, digital twins, and data science), with ability to visualize the carbon cycle and manage each point in the process

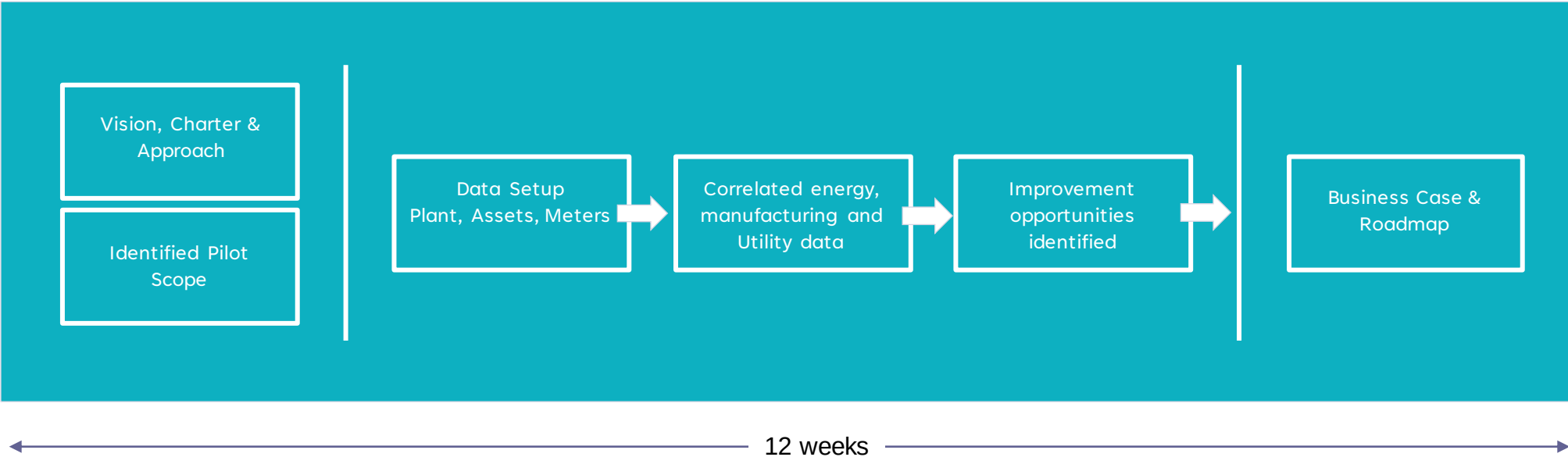
Carbon Neutrality Solutions

- Advisory on selection and purchase of Carbon credits

Supporting Transition to Net Zero

Compact Pilot for quick opportunity visibility

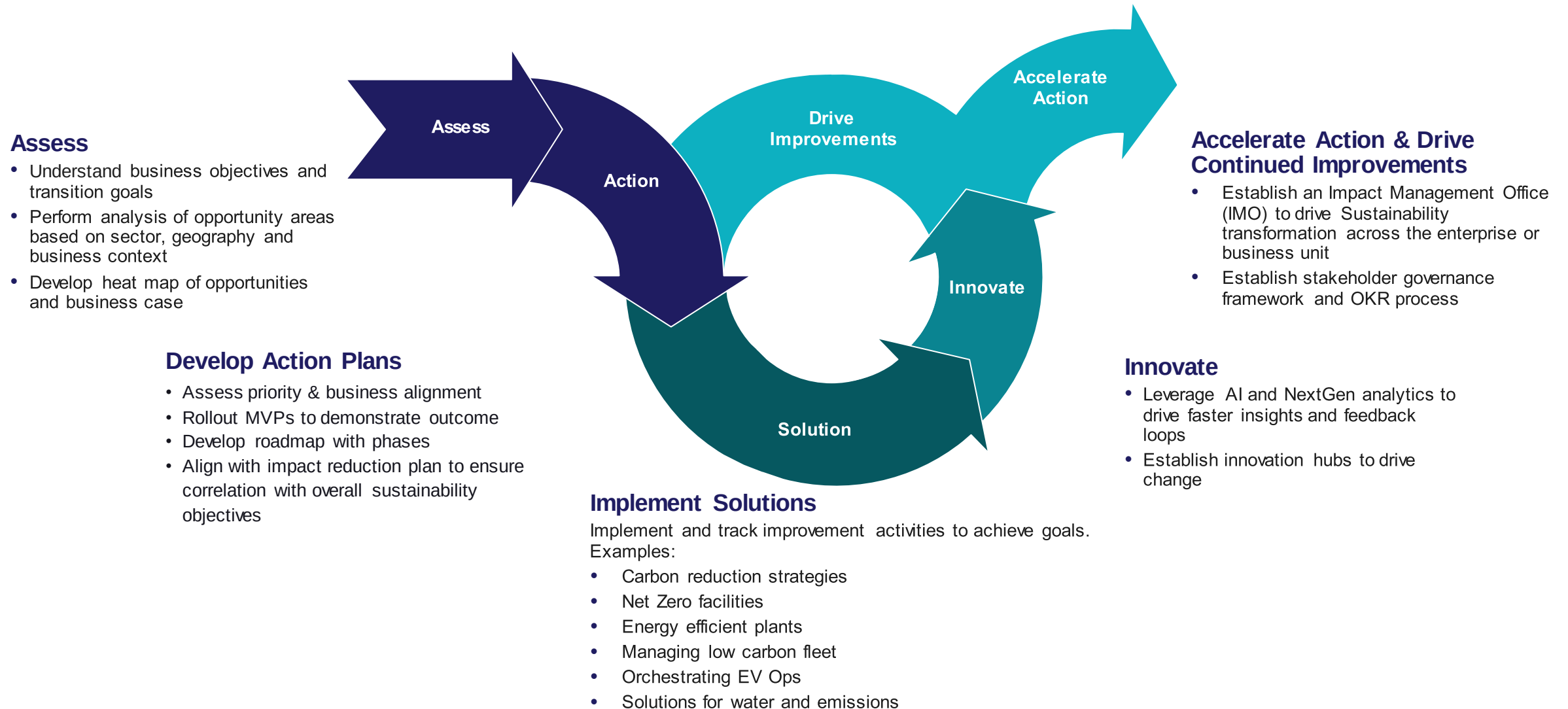
The integrated Wipro approach creates full visibility on the energy improvement and cost savings potential. Its holistic perspective across Sustainability, Energy Management & Manufacturing Process ensures stakeholder inclusion and alignment.



Opportunity Areas

- Idle Time reduction - Scrap/waste reduction - Aligning to Golden batch	- Asset health - Retrofit/modernization - Engineering improvements	- Rooftop solar & batteries - Variable & dynamic rates - Optimizing shifts	- Electrification - Renewable Certificates & Trading - Utility events like Demand/Response
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Zero Transition: Approach





Thank you.

Kindly contact us at the following Wipro email id for any further information and engagement related details.

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