OUR SERVICES

End-to-end support for conventional power plant transformation from coal to multi-fuel, lower-emission and future-ready operations.

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1 Existing Plant Assessment & Technical Due Diligence

We conduct detailed assessments of existing thermal power plant infrastructure, including:

- Boiler systems
- Turbines and generators
- Electrical systems
- Fuel handling infrastructure
- Auxiliary systems
- Water and wastewater systems
- Emissions systems
- Operational reliability

This includes technical condition analysis, remaining lifetime assessment, operational constraints and modernization potential.

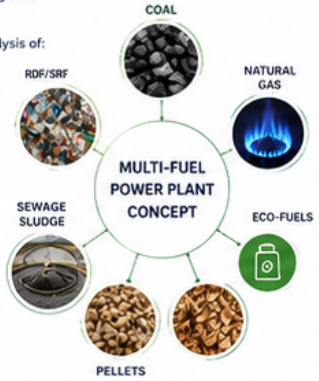
The Plomin project included detailed evaluation of boiler systems, steam turbines, electrical infrastructure, control systems and operational availability.

2 Fuel Transition & Multi-Fuel Strategy Development

We develop and evaluate transition pathways from conventional coal-based generation towards integrated multi-fuel infrastructure concepts.

This includes technical and techno-economic analysis of:

- Coal
- Natural gas
- RDF / SRF
- Sewage sludge
- Biomass
- Pellets
- Eco-fuels
- Hybrid co-firing concepts



The objective is to:

- ✔ Reduce emissions
- ✔ Lower dependency on conventional fossil fuels
- ✔ Integrate circular waste streams
- ✔ Maintain reliable dispatchable generation capacity

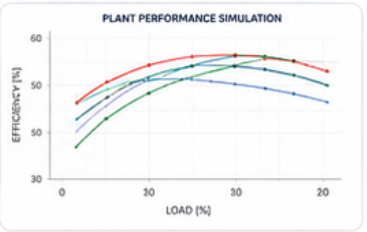
Within the Plomin project, multiple technical variants and fuel scenarios were developed, assessed and compared, including:

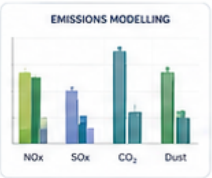
Coal + Waste | Gas + Waste | Gas + Waste + Biomass | Dedicated Waste-to-Energy Concepts

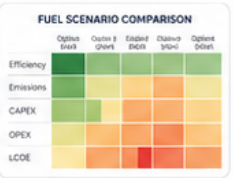
3 Simulation, Modelling & Scenario Analysis

We support:

- Thermodynamic modelling
- Co-combustion simulations
- Operational scenario development
- Emissions modelling
- Fuel balancing
- Performance optimization







The Plomin project included thermodynamic modelling of co-combustion concepts, fuel variant modelling, techno-economic evaluation, emissions assessments and evaluation of operational performance impacts.

4 Capacity Preservation & Infrastructure Resilience

Our approach focuses not only on decarbonization, but on preserving:

- Dispatchable generation capacity
- System resilience
- Grid reliability
- Operational flexibility

We support infrastructure concepts that maintain stable generation capability while transitioning away from high-emission fuel structures.

This includes:

- ✔ Resilient fuel strategies
- ✔ Hybrid fuel capability
- ✔ Operational redundancy
- ✔ Flexible infrastructure adaptation

5 Regulatory, Environmental & Permitting Readiness

We support alignment with:

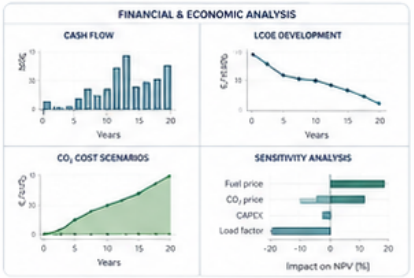
- EU environmental requirements
- BAT / BREF requirements
- Emissions reduction targets
- Waste-management legislation
- Permitting frameworks
- Local regulatory requirements

The Plomin project included environmental analysis, permitting procedures and alignment with Croatian and EU environmental frameworks.

6 Techno-Economic & Investment Analysis

We evaluate:

- CAPEX / OPEX structures
- Long-term fuel economics
- CO_2 cost exposure
- Energy-market assumptions
- Lifecycle economics
- Infrastructure bankability



The Plomin project included financial analysis, sensitivity analysis and long-term fuel and electricity price forecasting.

OUR APPROACH

ANALYZE
We assess your assets, data and operational context.

DEVELOP
We design multi-fuel and lower-emission concepts.

SIMULATE
We model, simulate and compare scenarios. requirements.

PREPARE
We prepare clear recommendations, roadmaps and next steps.

DELIVER
We support implementation and ensure long-term performance & value.