

PROJECT BENCHMARK

NON-BINDING DEMO

Fast Evaluierung

40.0 EUR m | Brownfield / existing facility | Refining | Europe | Requested project start: Jun 25, 2026

TOTAL CYCLE
42.3 mo.
Modelled plan finish: Jan 1, 2030

FEL / PROJECT DEFINITION
17.7 mo.
Resilient

EXECUTION
28.9 mo.
Schedule-prioritized strategy

START-UP & HANDOVER
1.8 mo.
OPERATE

MODELLED OVERLAP
0 %
Set custom value

Executive phase overview

The bars show phases, overlaps and calendar periods from the selected project start date.



Calendar dates are derived from the modelled month values and the selected start date. They support early schedule orientation and do not include project-specific work calendars or shutdown windows.

Phase durations and ranges

NON-BINDING DEMO

Fast Evaluierung · Reference corridor P10-P90

Phase	Duration	Start	Finish	P10-P90	Interpretation
FEL 1 / concept	2.8 mo.	Jun 25, 2026 M 0.0	Sep 19, 2026 M 2.8	0.0 - 3.8 mo.	Derived concept and preparation window within the total project definition period.
FEL 2 / selection	8.0 mo.	Aug 17, 2026 M 1.7	Apr 18, 2027 M 9.8	1.9 - 9.5 mo.	From core team formation through concept and scope selection.
FEL 3 / definition	8.8 mo.	Mar 22, 2027 M 8.9	Dec 14, 2027 M 17.7	2.7 - 10.7 mo.	From scope selection through completion of the basic definition package.
Detailed engineering	12.6 mo.	May 24, 2027 M 10.9	Jun 11, 2028 M 23.6	3.7 - 14.9 mo.	Detailed design through a substantially complete engineering position.
Procurement	20.4 mo.	Apr 20, 2028 M 21.8	Jan 1, 2030 M 42.3	7.4 - 24.1 mo.	From the first major order through availability of key deliveries.
Construction	15.5 mo.	Jul 5, 2028 M 24.3	Oct 19, 2029 M 39.8	5.0 - 18.5 mo.	From initial foundation work through mechanical completion.
Start-up / ramp-up	2.5 mo.	Oct 19, 2029 M 39.8	Jan 1, 2030 M 42.3	0.0 - 2.6 mo.	From mechanical completion through stable operating conditions.
Steady-state operations	—	Jan 1, 2030 M 42.3	Apr 1, 2030 M 45.2	—	Milestone for steady-state operations; no benchmarked operating duration is assigned.

Methodological context

The results are model-based estimates and may contain uncertainty, deviations or errors despite careful calculation. The report supports early planning and plausibility checks and does not replace a project-specific schedule or a binding approval, investment or contractual decision.

The calculation considers the selected project parameters and 6,000 simulation runs. Result quality and schedule ranges depend materially on the completeness, plausibility and currency of the inputs. Exceptional project-specific conditions may lead to different outcomes.

Phase parameters and duration effect

NON-BINDING DEMO

The selected fine tuning and its combined mathematical effect for each phase.

Phase	Phase complexity	Governance / approvals	Interfaces / coordination	Custom adjustment	Custom target duration	Duration effect
FEL 1 / concept	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
FEL 2 / selection	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
FEL 3 / definition	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
Detailed engineering	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
Procurement	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
Construction	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %
Start-up / ramp-up	Overall: Typical	Standard	Standard	+0 %	calculated	+0.0 %

Overall factor: 1.00

The duration effect is the combined relative adjustment from phase complexity, governance, interface load and the custom correction. A custom target duration replaces only the modelled phase target; the statistical P10-P90 reference band remains visible for comparison, and the target is included in the timeline, completion date and probability calculation.

Schedule confidence and completion scenarios

NON-BINDING DEMO

The range indicates when the project is expected to finish at different confidence levels.

P50 · 50% schedule confidence

Jan 21, 2029

30.9 mo.
In 50% of simulated scenarios, the project is completed by this date.

P80 · 80% schedule confidence

Apr 29, 2030

46.1 mo.
Robust control date: 80% of simulated scenarios finish within this date.

P90 · 90% schedule confidence

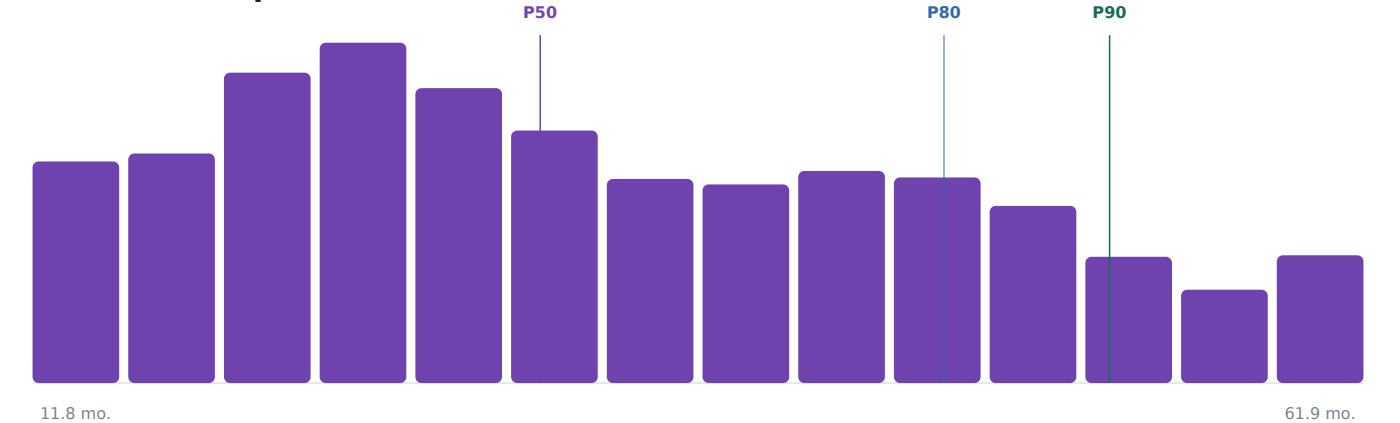
Nov 5, 2030

52.4 mo.
High assurance: 90% of simulated scenarios finish within this date.

Chance of meeting the modelled plan finish: 72 %

Modelled plan finish: Jan 1, 2030. Share of simulated scenarios that meet or improve on the current modelled plan finish.

Distribution of possible total duration



The simulation combines the P10, P50 and P90 distributions for project definition, execution, start-up and total cycle across 6,000 mathematical runs. Project profile, phase-specific fine tuning and parallel working are included within controlled limits. The outputs are probabilistic planning references, not guaranteed dates. 6,000 scenarios.

Cost confidence and budget range

NON-BINDING DEMO

Probabilistic total cost derived from the entered cost basis and the selected project parameters.

Cost basis

40.0 m EUR

Base estimate before risk contingency | FEL 2 / concept selection

P50 · 50% cost confidence

50.1 m EUR

Mathematical risk allowance: 5.7 m EUR | 12.8 %

P80 · 80% cost confidence

60.4 m EUR

Mathematical risk allowance: 16.0 m EUR | 36.0 %

P90 · 90% cost confidence

66.2 m EUR

Mathematical risk allowance: 21.8 m EUR | 49.1 %

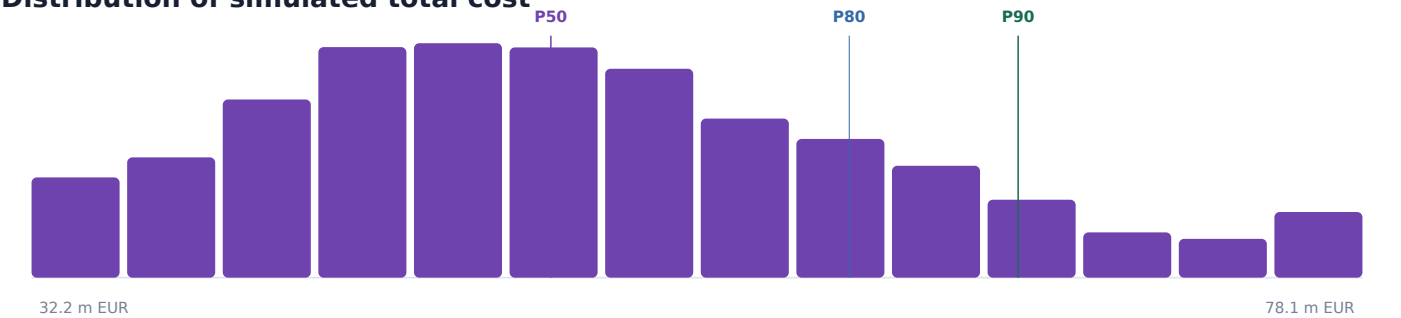
Cost basis	Escalation	Contingency	Management reserve	Planned funding
40.0 m EUR	4.4 m EUR 11.0 %	10.0 m EUR 25.0 %	4.0 m EUR 10.0 %	58.4 m EUR

Probability that planned funding is sufficient: 75 %

Planned funding is compared with all simulated total-cost outcomes. It includes the entered cost basis, escalation, contingency and management reserve.

Confidence level	Total cost	Mathematical risk allowance	Funding surplus / gap	Interpretation
P50	50.1 m EUR	5.7 m EUR 12.8 %	+ 8.3 m EUR	Central risk-adjusted expected value with a 50% probability of being met.
P80	60.4 m EUR	16.0 m EUR 36.0 %	- 2.0 m EUR	Robust planning value: 80% of simulated scenarios are at or below this amount.
P90	66.2 m EUR	21.8 m EUR 49.1 %	- 7.8 m EUR	High-confidence value: 90% of simulated scenarios are at or below this amount.

Distribution of simulated total cost



The cost analysis is not an independent quantity or price estimate. It uses the entered cost basis, optional escalation and the project parameters to derive a cost distribution across 6,000 mathematical simulation runs. Contingency and management reserve are shown transparently as funding components. The cost values are probabilistic planning and plausibility aids. They may contain uncertainty, deviations or errors and do not replace a project-specific cost estimate, approved budget, investment approval or contractual commitment.

Optional deterministic risk analysis

NON-BINDING DEMO

Fixed sensitivity assessment of the principal project and execution conditions.

OVERALL RISK INDEX

46 / 100

Moderate

SCHEDULE SENSITIVITY

3.4 mo.

8.1 %

SENSITIVITY COMPLETION DATE

Apr 16, 2030

Planned completion plus the deterministically derived schedule exposure.

COST SENSITIVITY

9.5 %

4.2 m EUR

Risk driver	Score	Rating	Recommended focus
Execution complexity and project size	49 / 100	Moderate	Secure the execution strategy, capacity, construction sequence and critical resources early.
Interfaces and existing assets	63 / 100	Elevated	Resolve the interface register, existing-asset data, tie-ins and operating restrictions.
Schedule compression and parallel working	40 / 100	Moderate	Approve parallel working only with robust dependencies, decision windows and maturity criteria.
Scope definition and estimate maturity	39 / 100	Moderate	Consolidate scope, quantities, assumptions and exclusions before the next approval gate.
Cost definition and funding coverage	52 / 100	Elevated	Document and reconcile the cost basis, price basis, allowances and approved funding consistently.
Market, industry and regional exposure	50 / 100	Moderate	Refresh procurement-market, logistics, permitting and regional assumptions regularly.

Project section	Score	Rating	Schedule sensitivity
FEL / project definition	43 / 100	Moderate	0.9 mo.
Execute / project delivery	51 / 100	Elevated	2.4 mo.
Operate / start-up and handover	41 / 100	Moderate	0.1 mo.

The deterministic analysis applies fixed and transparent sensitivity rules to project size, project type, industry, region, complexity, schedule strategy, overlap, governance, interfaces, phase settings and, when enabled, cost-estimate maturity and funding coverage. The results are a structured planning and prioritization aid. They may contain uncertainty or errors and do not replace a project-specific risk register, quantitative individual-risk analysis, approvals or contractual decisions.

Expected schedule structure

NON-BINDING DEMO

Reference values indicate how scope and schedule maturity typically develop between FEL 2 and FEL 3.

Interpretation	At FEL 2		At FEL 3	
	Reference value	Reference band	Reference value	Reference band
Activities	502	199-1,179	679	220-1,450
Activities per million	13.84	5.62-32.96	18.94	6.11-41.77
Average activity duration	18.5 days	9.3-29.6 days	16.9 days	9.1-30.7 days
Average total float	72.0 days	26.2-208.3 days	66.8 days	24.3-151.2 days
Resource categories	15	0-35	19	1-43
Resource-loaded activities	32.0 %	3.6-64.4 %	41.8 %	9.2-77.1 %
Summary activities	4.0 %	0.6-20.2 %	5.9 %	0.4-20.6 %
Milestones	12.5 %	3.6-23.7 %	9.0 %	2.5-20.5 %
FEL share	43.1 %	17.0-66.9 %	20.3 %	4.6-41.5 %
Engineering share	18.4 %	5.4-40.1 %	22.3 %	6.2-42.8 %
Procurement share	16.4 %	3.5-37.1 %	19.9 %	7.7-45.5 %
Construction share	13.3 %	5.4-25.2 %	21.4 %	7.8-53.3 %
Activities without successor	3.3 %	0.2-12.6 %	5.2 %	0.1-31.0 %
Critical-path activities	14.1 %	4.0-30.0 %	12.1 %	4.0-27.4 %
Constrained activities	0.3 %	0.0-1.2 %	0.3 %	0.0-2.7 %

The assessment combines statistical and mathematical calculations with intelligent algorithmic modelling. Size band, schedule strategy, project profile, overlap level and phase-specific complexity, governance and interface assessments are incorporated jointly. P10 and P90 form the modelled reference corridor, while 6,000 simulation runs add P50, P80 and P90 completion dates. The outputs are probabilistic planning values and not guaranteed project durations.