



# Study of CCS pilot technologies for coal fired power plants in the Czech Republic

Project progress

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# Progress of works

- WP 1 Input analysis
  - completed
  - final report delivered in 30.4.2015
- WP 2 Analysis of key processes
  - before completion
  - final report delivery till 31.12.2015
- WP 3 Technical and economical analysis
  - developer
  - final report delivery till 31.1.2016
- WP 4 Results and recommendation
  - will start on January 2016
  - final report delivery till



# Progress of works

## 1st monitoring period from January to June 2015

- 31.7.2015 - monitoring report was delivered
- 1.9.2015 - remarks to the continual part were obtained
- 14.9.2015 - remarks to the financial part were obtained
- 30.9.2015 - all remarks were answered
- 9.10.2015 - monitoring report was accepted



# Progress of works

2nd monitoring period from July to October 2015

- monitoring report must be delivered till 30.11.2015
- no binding indicator was planed

Required deliverables for elaboration

- results for technical part – most of them is already available
- statement of account x financial audit – required till 15.11.2015

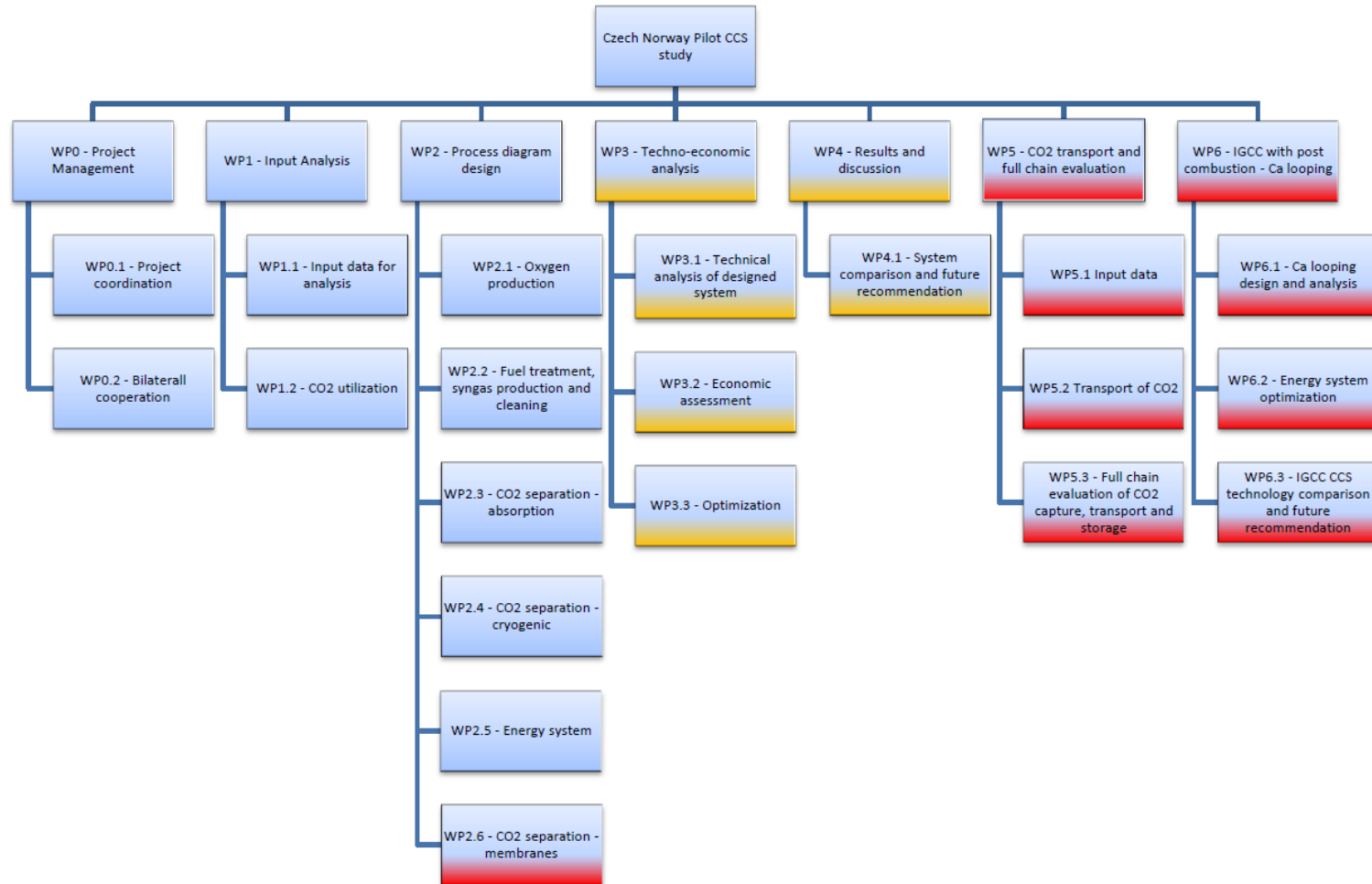


## Additional activities

- call for extension of project activities was opened on May 2015
- deadline to submission was 25.6.2015
- Application accepted in 1.7.2015
- Extension of project includes
  - WP 2.6 – CO<sub>2</sub> Separation – membranes
  - WP 5 – CO<sub>2</sub> transport and assessment of the whole chain
  - WP 6 – IGCC with Ca – looping post-combustion technique



# Additional activities





# Financial report

## Project budget and utilization without additional activities in the 1st monitoring period

	Total budget without AA	Planned utilization 01-06	Real utilization 01-06	Rest of budget	% utilized
CTU	6 510 410 Kč	2 143 025 Kč	2 030 732 Kč	112 293 Kč	31%
SINTEF	4 452 737 Kč	1 255 629 Kč	710 587 Kč	545 042 Kč	16%
ÚJV ŘEŽ	2 022 900 Kč	661 650 Kč	513 411 Kč	148 239 Kč	25%

## Budget and utilization including additional activities

	Total budget including AA	Real utilization 01-06	% utilized
CTU	8 121 540 Kč	2 030 732 Kč	25%
SINTEF	17 941 621 Kč	710 587 Kč	4%
ÚJV ŘEŽ	2 022 900 Kč	513 411 Kč	25%



## New bilateral projects

Three new bilateral projects oriented to visits of conferences with CCS topics were granted

- POWER GEN Asia conference
- 3rd Post Combustion Capture Conference (PCCC)
- The 2015 Pittsburgh Coal Conference

### Benefits of projects

- publicity of our project
- obtaining of recent information about CCS research activities and results
- linking of new contacts





## Project time extension

On July 2015 MF informed about opportunity to extend project schedule up to 12 month (till 30.4.2017)

- application must be submitted at least 2 months before project finalization
- project time extension excludes an increase of project budget

??? are we interesting in project extension ???



# Project time extension

## Benefits of project extension

- more time for finalization of the project with respect to additional activities
  - elaboration of more deep analyses and obtaining better results
  - opportunity for implementation of further bilateral projects
  - more chances for presentation of the project and results
  - total spending of project budget
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- partners can choose the period of project extension individually
  - CTU thinks about 6-month extension of the project (till 31.10.2016)



# Project time extension

## Current project schedule

Aktivita/Indicator	2015				2016		Deadline
	Q1	Q2	Q3	Q4	Q1	Q2	
WP0: Project Management							
Final report						◆	30.4.2016
Open workshop CTU - kick off		◆					30.6.2015
Open workshop SINTEF - bilateral				◆			31.12.2015
Open workshop ÚJV - final						◆	30.4.2016
WP1: Input analysis							
WP1 research report		◆					30.4.2015
Presentation of WP1 results on local conference		◆					30.10.2015
WP2: Analysis of key processes of pre-combustion system							
WP2 research report					◆		31.12.2015
WP2.6 research report						◆	30.4.2016
Presentation of WP2 results on international Trondheim conference		◆					30.6.2015
WP3: Technical and economical analysis of pre-combustion system							
WP3 research report						◆	31.1.2016
Presentation of WP3 results on local conference				◆			31.3.2016
Submission of paper manuscript to the international reviewed journal					◆		31.3.2016
Authorized software						◆	31.3.2016
WP4: Analysis of results and recommendations							
WP4 research report						◆	31.3.2016
Submission of paper manuscript to the Czech reviewed journal						◆	31.3.2016
WP5: CO2 transport and assessment of the whole chain							
WP5 research report						◆	30.4.2016
Presentation of WP5 results on local conference						◆	30.4.2016
WP6: IGCC with Ca-looping post-combustion technique							
WP6 research report						◆	30.4.2016
Presentation of WP6 results on local conference						◆	30.4.2016



# Project time extension

## Draft of extended project schedule

Aktivita/Indicator	2015				2016				Deadline
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
WPO: Project Management									
Final report								◆	31.10.2016
Open workshop CTU - kick off		◆							30.6.2015
Open workshop SINTEF - bilateral					◆				28.2.2016
Open workshop ÚJV - final								◆	31.10.2016
WP1: Input analysis									
WP1 research report		◆							30.4.2015
Presentation of WP1 results on local conference		◆							30.10.2015
WP2: Analysis of key processes of pre-combustion system									
WP2 research report				◆					31.12.2015
WP2.6 research report							◆		30.6.2016
Presentation of WP2 results on international Trondheim conference		◆							30.6.2015
WP3: Technical and economical analysis of pre-combustion system									
WP3 research report						◆			31.3.2016
Presentation of WP3 results on local conference			◆						31.3.2016
Submission of paper manuscript to the international reviewed journal				◆					31.3.2016
Authorized software					◆				31.3.2016
WP4: Analysis of results and recommendations									
WP4 research report								◆	31.9.2016
Submission of paper manuscript to the Czech reviewed journal								◆	31.9.2016
WP5: CO2 transport and assessment of the whole chain									
WP5 research report							◆		30.6.2016
Presentation of WP5 results on local conference							◆		30.6.2016
WP6: IGCC with Ca-looping post-combustion technique									
WP6 research report								◆	30.8.2016
Presentation of WP6 results on local conference							◆		30.8.2016