Annex A1-1 *Report on project plan*



Subject	Project acronym / Ref. No.	Date				
Deliverable under Action A.1	Etanolix 2.0 for LIFE+ / LIFE12 ENV/SE/000529	31/12/2013				
Issued by	Company / Department					
Linda Werner (PM/Technical Manager)	St1 Refinery AB / Technical Department					

Report on project plan

The project plan, for the overall LIFE+ project, is seen below and is the same as presented in the Grant agreement. This Action plan, as a coarse time schedule, has been used as a starting point to discuss and "break down" the different Actions to more detail and in depth activities linked to each Action A-E. The demarcated and defined tasks have thereafter been delegated to different groups according to the Project Management structure. E.g. Technical Work Group got responsible for the Construction and design. Time, actions and responsibilities have been communicated within the organization and to whom it might concern.

	Action		2013			2014					20	15		2016			2017					18	1	
Action numbe	Name of the action	I	п	m	ı٧	I	п	m	IV	I	Ш	m	IV	ı	11	m r	v	ı lı	ı	IIV	I.	п	шĸ	1
A. Pre	paratory actions:		-	-	-	_	-	-			_		_	-	_	-			-		—	-		1
A.1	Planning and preparation																							1
A.2	Design of the pilot and Procurement																							1
B. Imp	lementation actions:																							1
B.1	1 Construction of pilot plant and installation/integration to the refinery]
B.2	Commissioning, start-up and performance verification																	Т			\square			1
B.3	Demonstration of pilot plant																				\square			1
C. Mon	itoring of the impact of the project actions:																							1
C.1	Monitoring and Evaluation of pilot plant																			I	Π			1
C.2	Socio-economic impact of the project actions																				\square			1
D. Con	munication and dissemination actions:]
D.1	Communication and dissemination of project results									_		_		_			_			I				1
D.2	Networking with other EU-projects																			I	\square			1
D.3 After LIFE+ Communication Plan																				I	\square			1
E. Proj	ect management and monitoring of the project progress:					-	-																	1
E.1	Project management and monitoring of project progress																			I	\square			1

The project plan is the Project Manager's responsibility. At this stage, involved in actions for the project, is mainly personnel within the Health, Safety and Security department, Process Technology competencies, Construction- and Procurement department. Actions ongoing are:

- Preparatory actions
 - A1 planning and preparation
 - A2 design of the pilot and procurement
- Communication and dissemination actions, D.1



• Project management and monitoring of the project progress

Below we present an example on the level of details to be planned for in detail and where a dedicated time schedule is performed to enable the work to be executed in time. Please see below the 'Planning and Preparation work sheet' used by the refinery Engineering department.

St1 Refinery AB

PROJEKTINFORMATION	
Projekt Nummer:	R0213R90
Projektnamn	Etanolix 2.0

Kat.	Beskrivning
I.	ENGINERING
	Administration
	Design Civil
	Design Mechanical
	Project Management
	Civil direction of work
	Design Piping
	Design review
	Piping direction of work
II.	CIVIL
	Foundation tie-in A
	Slab loading station stillage
	Soil and ground investigation
	Fire proofing
	Cable earthmoving
	Roads and planes
	Recieving station
III.	MECHANICAL
	Steel construction
	Heat exchanger (cooler)
IV.	INSTRUMENT
	Material
	Work
V.	PIPING AND PIPELINES
	Piping material



Deliverable under Action D.1

Project acronym / Ref. No. Etanolix 2.0 for LIFE+ / LIFE12 ENV/SE/000529

	Work
	X-ray
	Control
	Cranes, transportation
	Scaffholding
	Pressure test
	Plant organization
	Documentation
	Painting
	Galvanization
	Insolation
	Heat treatment
VII.	(Supply and construction)
	Operational station
	Surveillance camera
IX.	ELECTRICAL ENGINEERING
	New switchgear
	Instr. cabling
	El-tracing
	Earthing, electricity
	Lighting
Х.	UTILITIES AND AUXILIARIES (Supply)
	Soil preparation
XI.	MOVABLES
	Waste
XII.	MISCELLANEOUS SUPPLIES AND SERVICES
	Safety guards (Piping)
	Safety guards (Civil Piping)
	Contingency (10%)

The step, after defining all important tasks, is to develop the time schedule defining the activities and when in time they have to be started and finalized.

Please find a draft of the project time schedule over the year of 2014.



Subject

Deliverable under Action D.1

Project acronym / Ref. No.

Etanolix 2.0 for LIFE+ / LIFE12 ENV/SE/000529

Date 31/12/2013

Eta	nolix GOT						10	ARGE		ME SCH ev. 3	EDUL	E															s
10	Task Name	Rev.	esponsibl	Start	Finish	Complete	Duration	Tet Quan		2nd Quarter Apr May		Quarter	Ren	th Quarte	line	st Quarte		and Qua		Brd Qua	Wr.	Ath Q	arter	- Tat I	Quarter	Pre-	Quarter
1	Project ETANOLIX GOT E82	1		Mon 18.3.13	Sat 30.5.15	30%	564 days		-	Car I har	200 0	2.100A.	_	-	-	240 17 25	-	and shares and	-		194,116	K1.995	URDA L DO	0.1.64	11.46	24-10	10.00
2	Milestones			Mon 18.3.13	Sat 30.5.15	100%	564 days	8 1	-	_	_	_	-	_	-	-	-	-	-	-	-	-	-	-	-	-	
3	Implementation decision		St1	Mon 22.4.13	Mon 22.4.13	100%	0 days	2	10000	♦ 22.4					1 1												
4	Prepare Haz-op step 3		St1	Mon 3.6.13		100%	15 days				-																
5	Haz-op review meetings with the Refinery		St1	Wed 26.6.13	Tue 20.8.13	100%	40 days	8			-																
0	Application documentation Etanolix		St1	Mon 18.3.13	Sat 30.5.15	100%	564 days		-												-		-		-	-	-
24	Procurement Schedule			Mon 22.4.13	Tue 12.8.14	39%	336 days				-		-	_	-	-	-	-	-	-							
33	Construction schedule	-		Mon 5.5.14	Fri 20.2.15	0%	205 days	2		100					1		1	-	-		-	-	-	_	-		
34	Earthworks and pling			Mon 5.5.14	Fn 11.7.14	0%	50 days	8 1										0	-		1			T			
35	Concrete works			Fn 6.6.14	Wed 1,10.14	0%	84 days	3											1								
36	Steel erection			Mon 14.7.14	Mon 27.10.14	0%	78 days													-	-	1000					
37	Equipment installation			Mon 28.7.14	Fri 3,10.14	0%	50 days	8												1		- 6	1				
38	Piping installation			Mon 11.8.14	Fr. 14.11.14	0%	70 days													1 1		-					
39	E & I installation			Mon 8.9.14		0%	65 days														- le		-				
40	Check-out and testing			Mon 1 12,14		0%	30 days														-		-	-			
41	Insulation			Mon 15.12.14		0%	45 days																- 4+	C.5.			
42	Operation and maintenance training	1		Mon 22.9.14	Fri 13.3.15	0%	120 days															-				•	
43	Biofuels training		St1	Mon 3.11.14	Fri 13.2.15	0%	70 days															1.1		+			
44	St1 operation and maintenance training		Sti	Mon 3.11.14	Mon 3.11.14	0%	1 day																		1.200		
45	Participation of the operators in loop and sequence testing		St1	Mon 1 12 14	Mon 26.1.15	0%	36 days	× .															-				
45	Training in Biofuels plant in Finland Jokioinen, Hamina, Vantas		SH	Mon 8,12,14	Fn 12.12.14	0%	5 days	2															•	1			
47	Participation of the operators in pipeline marking		St	Tue 13.1.15	Mon 26.1.15	0%	10 days																	•			
48	Practical operational training during start-up control		Sti	Mon 19.1.15	Fn 13.2.15	0%	20 days	8																			
49	Practical operational amd maintenance training field		St1	Mon 19,1.15	Fn 13.2.15	0%	20 days	3																			
50	Subcontractor training	1	St1	Mon 22.9.14	Fri 13.3.15	0%	120 days														1.0		_	-		•	
51	ABB Automation		3t1	Mon 10.11.14	Tue 11.11.14	0%	2 days	8																	1 8	28	

