

#BPPT2020  
SOLIDSMARTSPEED

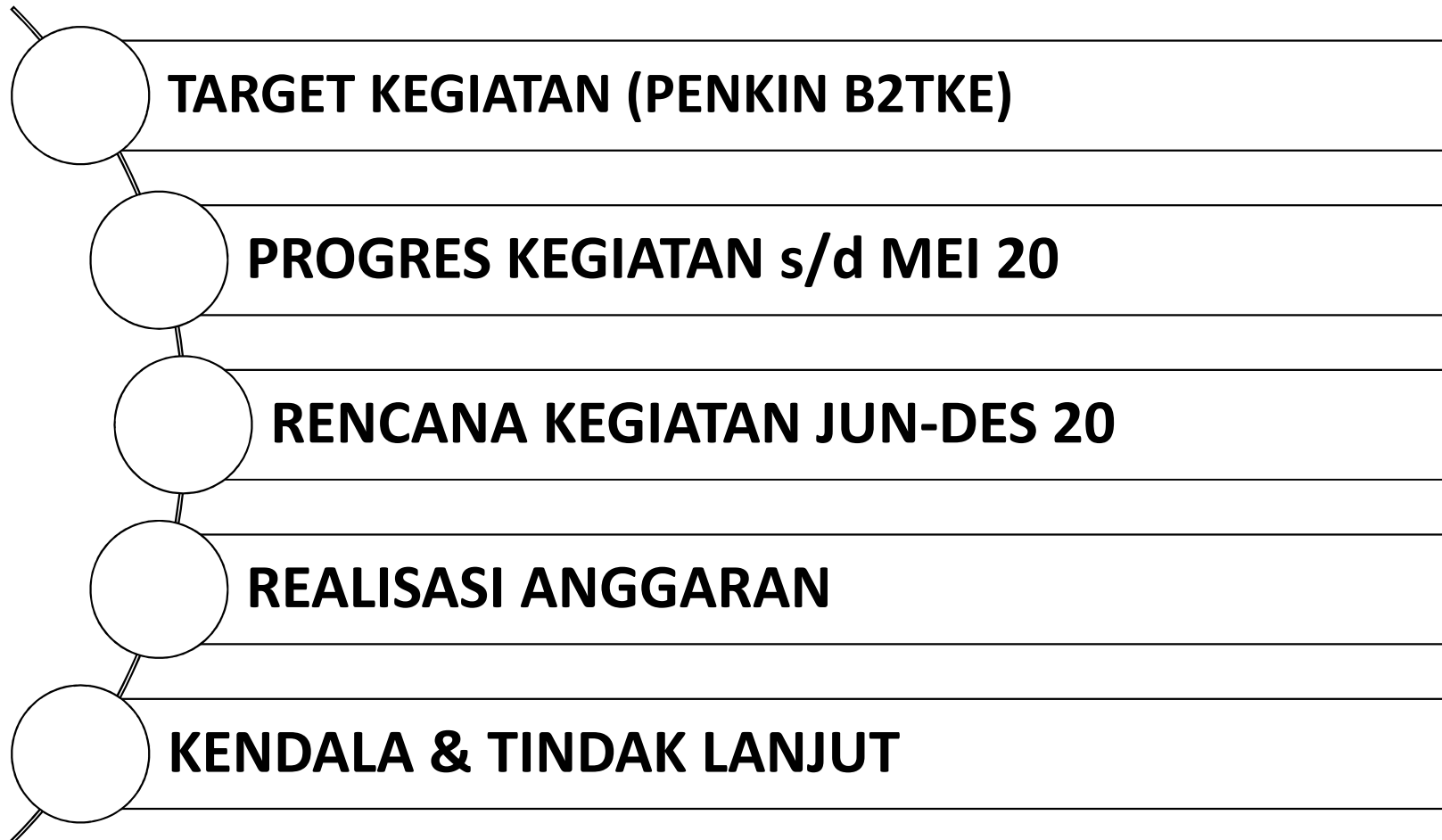


# MONITORING & EVALUASI KEGIATAN PLTP 2020

03 Jun 2020

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# OUTLINES



# TARGET B2TKE 2020

## BIDANG KONVERSI ENERGI

NO	OUTPUT	INDIKATOR	TARGET
1	PLTP s/d 5 MW	DED PLTP	1

## BIDANG LAYANAN JASA TEKNOLOGI

NO	OUTPUT	INDIKATOR	TARGET
1	PNBP	Layanan Jasa	2
		IKM	A

## BIDANG TEKNOLOGI KELISTRIKAN

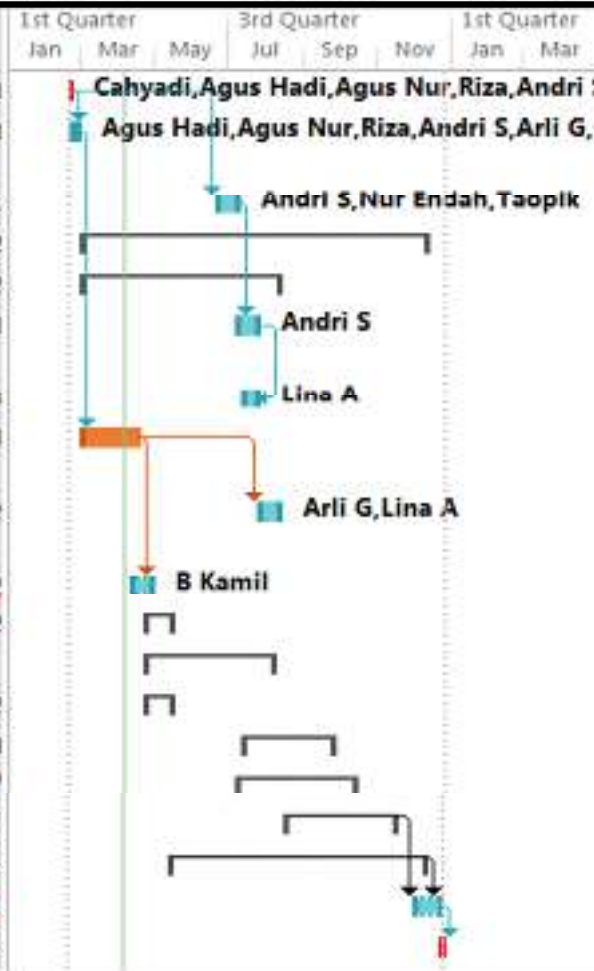
NO	OUTPUT	INDIKATOR	TARGET
1	Charging Station	Fast CS Roda 2	1
		Fast CS Roda 4	1
		CSMS	1

## BAGIAN UMUM

NO	OUTPUT	INDIKATOR	TARGET
1	Rutin	Layanan Perkantoran	1
2	Zona Integritas	WBK	1

# SKEDUL PLTP 2020

Task Mode	Task Name	Duration	Start	Finish	1st Quarter			3rd Quarter			1st Quarter	
					Jan	Mar	May	Jul	Sep	Nov	Jan	Mar
2	Kick off Meeting	2 days	Fri 2/21/20	Fri 2/21/20								
3	Persiapan Tim PLTP	5 days	Mon 2/24/20	Fri 2/28/20								
4	Perijinan FS	13 days	Mon 6/22/20	Wed 7/8/20								
5	Feasibility Study	205 days	Mon 3/2/20	Fri 12/11/20								
6	Sistem Integrasi	117 days	Mon 3/2/20	Tue 8/11/20								
7	Potensi & Karakteristik Sumur	12 days	Thu 7/9/20	Fri 7/24/20								
8	Kajian siklus PLTP	10 days	Mon 7/13/20	Fri 7/24/20								
9	Kajian Modular refer Kamojang	35 days	Mon 3/2/20	Fri 4/17/20								
10	Updated teknologi PLTP Sesuai Site Plant	12 days	Mon 7/27/20	Tue 8/11/20								
11	Disain sistem integrasi	12 days	Mon 4/13/20	Tue 4/28/20								
12	Mekanikal	15 days	Fri 4/24/20	Thu 5/14/20								
21	Elektrikal	76 days	Fri 4/24/20	Fri 8/7/20								
28	Instrumen & Kontrol	15 days	Fri 4/24/20	Thu 5/14/20								
33	Sipil	55 days	Mon 7/13/20	Fri 9/25/20								
40	Finance	69 days	Thu 7/9/20	Tue 10/13/20								
45	Reporting FS	65 days	Wed 8/19/20	Tue 11/17/20								
48	Detailed Engineering Design	151 days	Fri 5/15/20	Fri 12/11/20								
54	Final Report FS DED	15 days	Fri 12/4/20	Thu 12/24/20								
55	Finish	1 day	Fri 12/25/20	Fri 12/25/20								

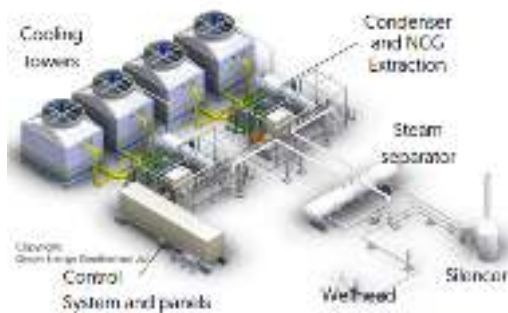


# PROGRES KEGIATAN S/D MEI 20

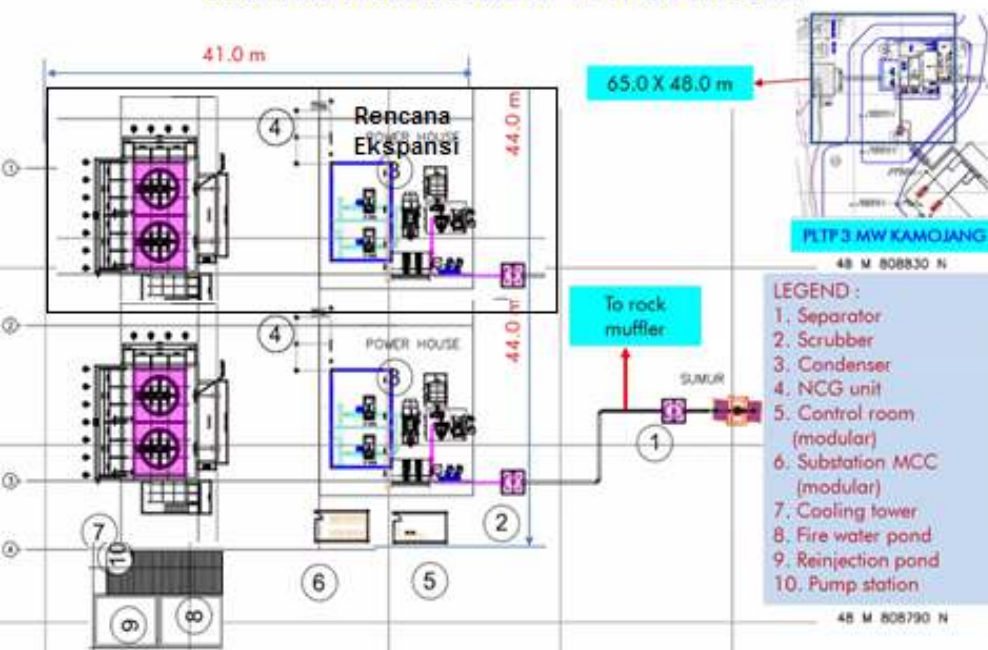


TARGET	JANUARI	FEBRUARI	MARET	APRIL	MEI
FS dan DED PLTP	1. Penugasan PLTP Sibayak	1. Stake holder PLTP	1. Konseptual desain siklus steam PLTP	1. Konseptual Desain Siklus PLTP hybrid condensing & binary cycle	1. Konseptual Desain Proses, Elektrikal, Mekanikal, Sipil
FS dan DED PLTP	2. Kerjasama operasi dan Maintenance PLTP eksisting Kamojang dan Lahendong	2. Kerjasama operasi dan Maintenance PLTP eksisting Kamojang dan Lahendong	2. Desain konseptual komponen utama PLTP: Separator, Scrubber, Turbin, Generator, Condenser, Steam Ejector, Cooling System	2. Pemilihan komponen utama PLTP: Separator, Scrubber, Turbin, Generator, Condenser, Steam Ejector, Cooling System	2. Kalkulasi basic design proses, elektrikal, mekanikal dan sipil.

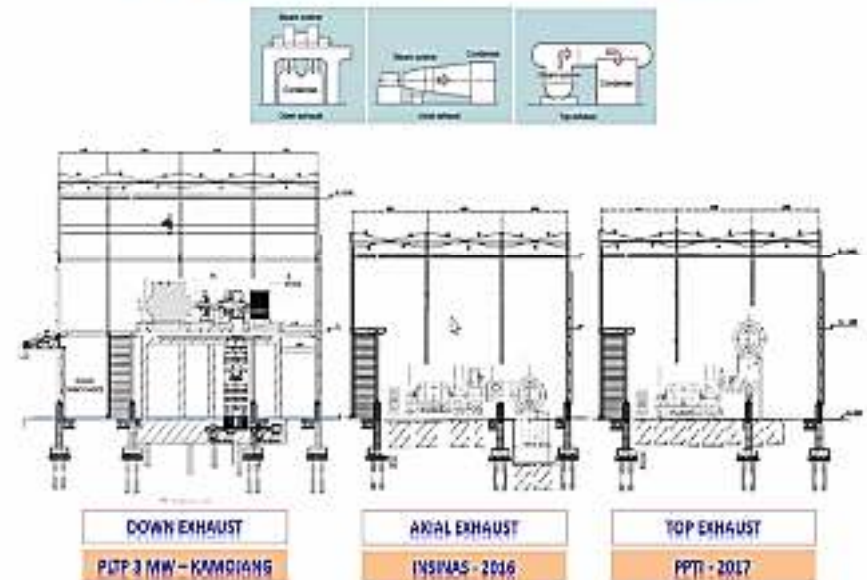
# GENERAL ARRANGEMENT PLTP



## GENERAL ARRANGEMENT PLTP 3 FLAGSHIP

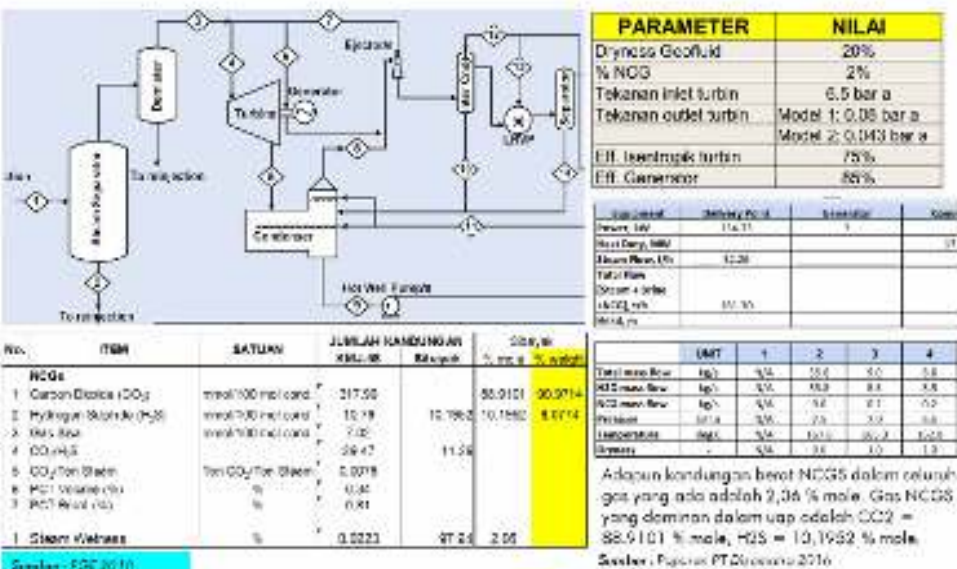


## TIPICAL MODEL EXHAUST TURBINE PLTP FLAGSHIP

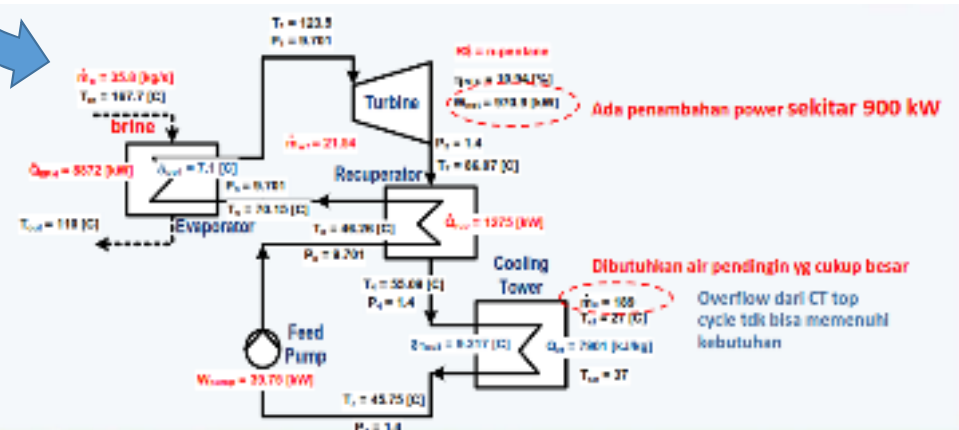
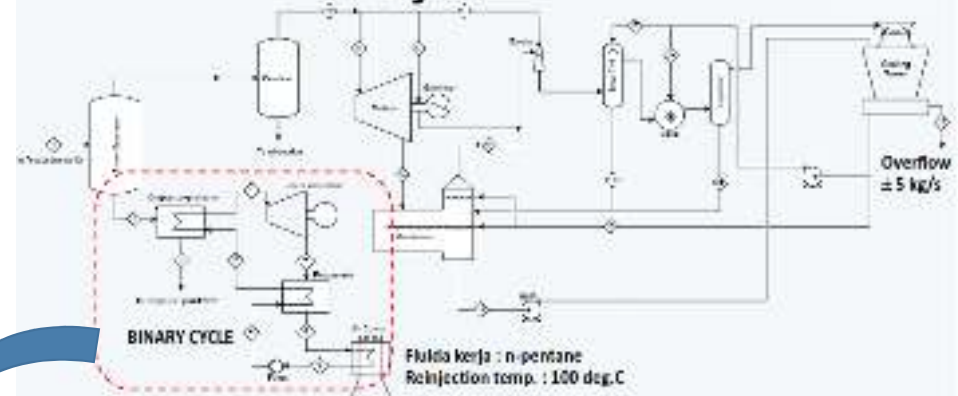


# KONSEPTUAL PLTP SIBAYAK

## OPTIMASI DAYA PEMBANGKIT PLTP FLAGSHIP



## Optimasi Net Power dgn Bottoming Cycle



	Model 1	Model 2
Steam Mass Flow	29,88 t/h	32,26 t/h
Spec. Steam Consumption	9,96 t/h/MW	10,75 t/h/MW

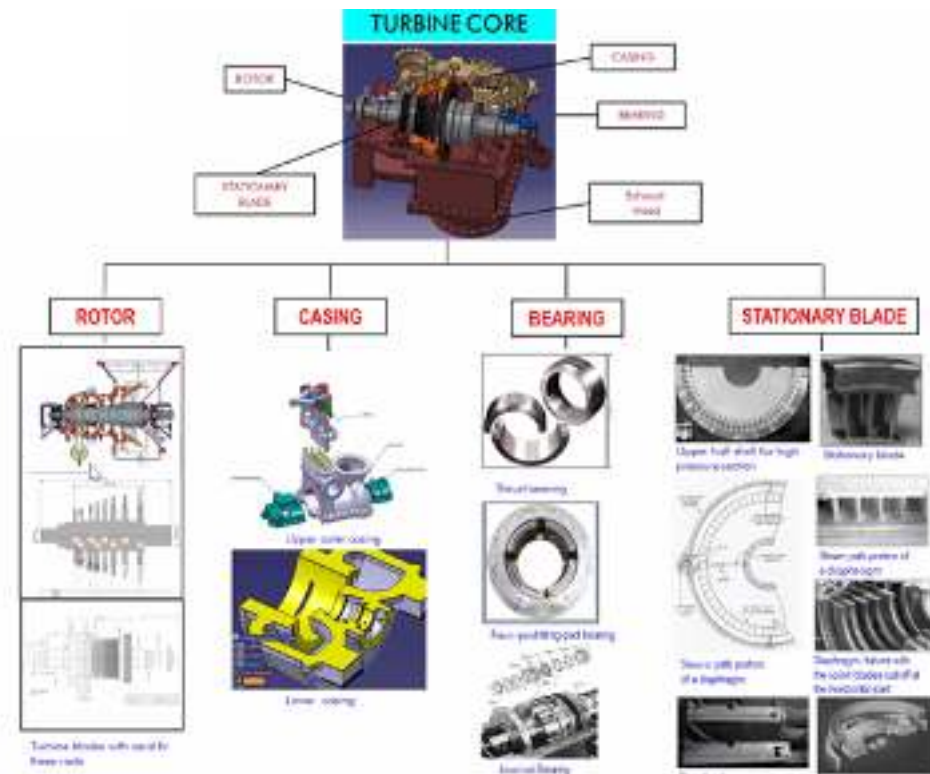
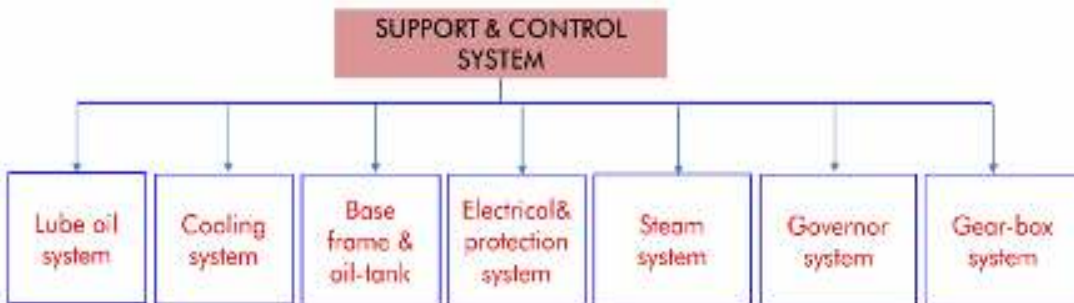
# BASIC DESIGN TURBIN PLTP

## SKEMA PEMBAGIAN TURBINE ISLAND

### 1. STEAM TURBINE CORE

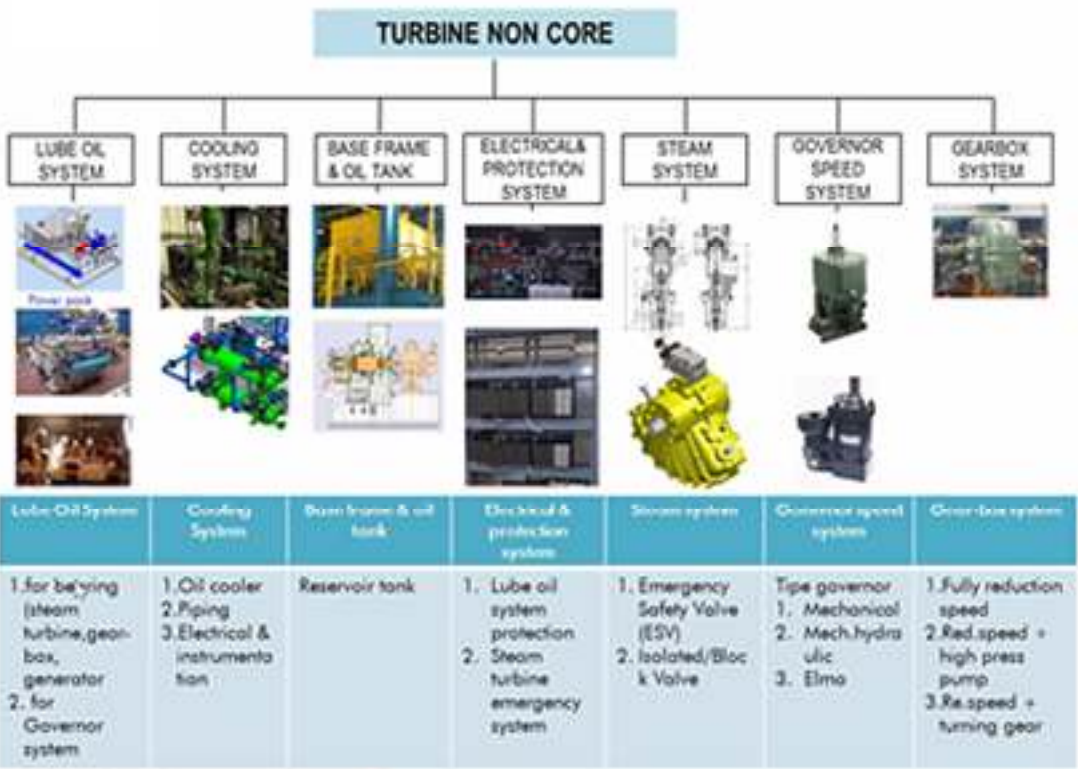


### 2. SUPPORT & CONTROL SYSTEM

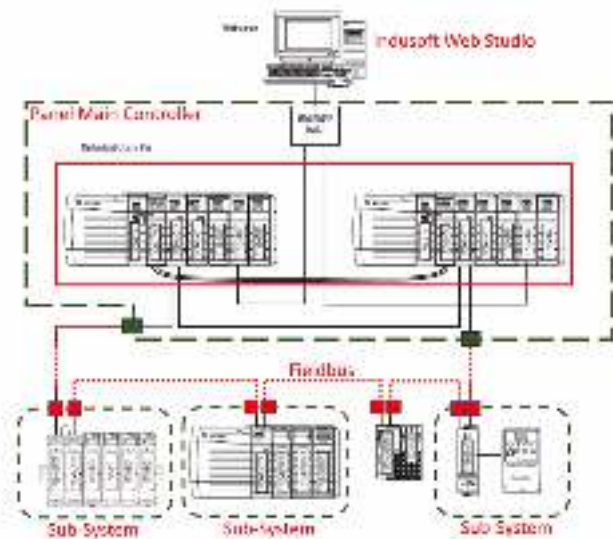
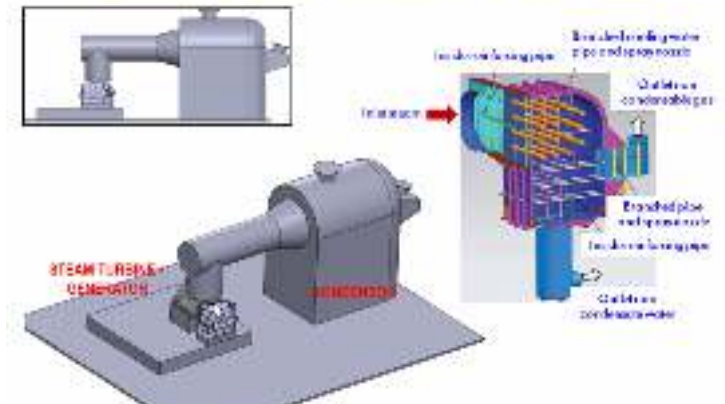




# BASIC DESIGN TURBIN PLTP



CONDENSER GENERAL ARRANGEMENT, ALTERNATIF #2



# RENCANA KEGIATAN S/D DES 20

TARGET	JUN	JUL	AUG	SEP	OKT	NOV	DES
FS PLTP	1.Konseptual Desain Proses, Elektrikal, Mekanikal, Sipil	1.Site Survey dan Benchmarking 2.Kalkulasi basic design proses, elektrikal, mekanikal dan sipil.	1.Soil test dan Rona awal Lingkungan 2.Site Survey (GA, Proses, Routing elektrikal)	1.Site Survey Pelaporan Awal 2.Feasibility Study Analisa 3.Kajian Lingkungan	1.Finishing Feasibility Study 2.Analisis Pondasi Sipil (FS dan DED)	11.Finishing Feasibility Study Lingkungan, Analisis Finansial,	Pelaporan akhir FS
DED PLTP	1.Kalkulasi basic design proses, elektrikal, mekanikal dan sipil.	1.Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.	1.Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.	1.Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.	1.Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.	1.Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.	1.Pelaporan Drawing Detailed Engineering Design proses, elektrikal, mekanikal dan sipil.

# REALISASI ANGGARAN S/D MEI 20

OUTPUT/MAK	REALISASI (SP2D)	COMMITTED	PENGAJUAN	TOTAL PENYERAPAN
1	2	3	4	5 (2+3+4)
<b>DED PLTP SKALA KECIL</b>	<b>Rp. 89.820.000,-</b>	<b>Rp. 206.500.000,-</b>	<b>Rp. 715.810.000,-</b>	<b>Rp. 1.012.130.000</b>
Honor Drafter Sistem Mekanikal & Elektrical	Rp. 89.820.000,-	Rp. 206.500.000,-	---	Rp. 296.230.000,-
Coupling Drill			Rp. 13.000.000,-	Rp. 13.000.000,-
Covid 19 - Vitamin Penambah Daya Tahan Tubuh	---	---	Rp. 664.130.000,-	Rp. 664.130.000,-
Covid19 -APD	---	---	Rp. 38.680.000,-	Rp. 38.680.000,-

# KENDALA DAN TINDAK LANJUT

INDIKATOR KINERJA	KENDALA	TINDAK LANJUT YANG DIPERLUKAN
1	2	3
DED	Penugasan PLTP oleh EBTKE dengan PLN dan PGE tertunda dengan adanya covid 19	Rescheduling koordinasi penugasan PLTP.
	Site survey calon lokasi PLTP masih terkendala kondisi Covid 19, Soil investigation, dan uji kajian lingkungan serta benchmarking PLTP yg dibutuhkan dalam konseptual dan DED.	Rescheduling soil investigation dan kajian rona awal lingkungan.

**#BPPT2020**  
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BALAI BESAR  
TEKNOLOGI KONVERSI ENERGI

INDVASI  
ENERGI  
UNTUK  
INDONESIA

# THANK YOU

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