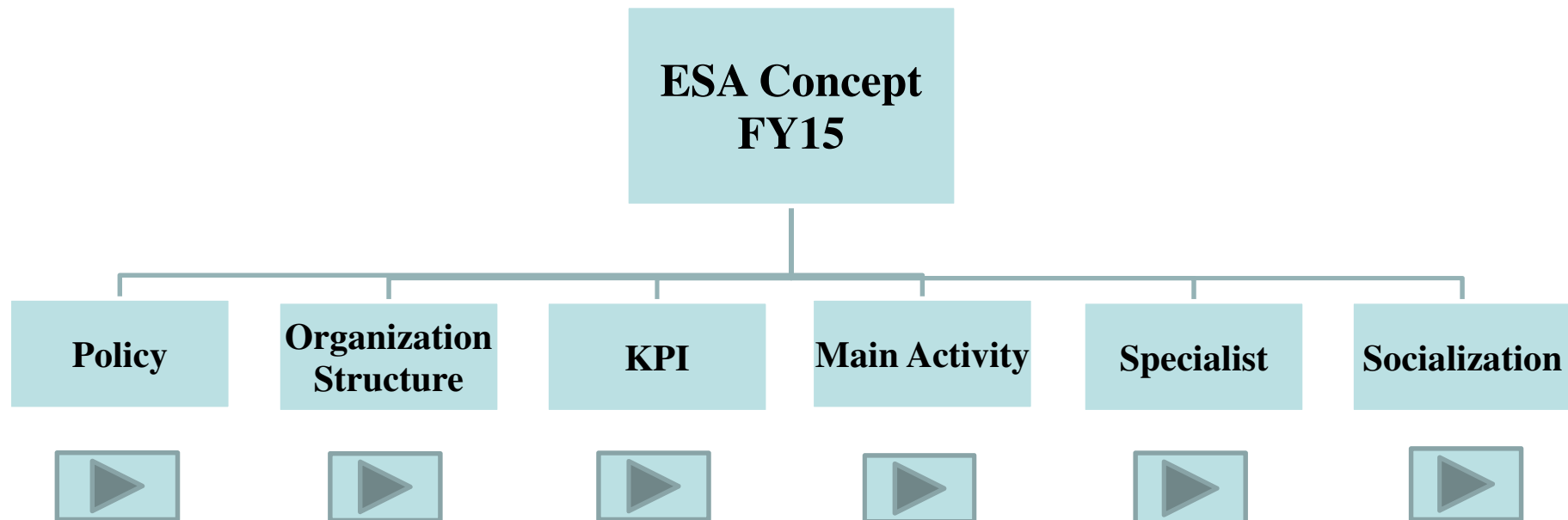







This Proposal is intended to be the fundamental of concept which will be applied in FY15



This Fundamental Concept Will Establish ESA Team to Achieve the Target

THANK YOU

Next Activity After Benchmarking

NO	ITEM	Dec 14	Jan 15	Feb 15	Mar 15
1	Sample Implementation of ESA Small Group Activity (SGA) 	<u>Report</u> ---> <u>Discussion</u>	<u>Preparation</u> ----->	<u>Implement</u> ---> <u>GBM</u> 	<u>Implement</u> ---> <u>GBM</u> 
2	Energy JIT Map Creating 	<u>Report</u> ---> <u>Discussion</u>	<u>Preparation</u> ----->	<u>Coordination</u> ---> <u>with PE</u>	<u>Implement</u> -----> <u>MAP</u>
3	Strengthen Campaign of Energy Saving Activity 	<u>Report</u> ---> <u>Discussion</u>	<u>Preparation</u> ----->	<u>Implementation & Evaluation</u> ----->	

-----> Plan

GBM = Genba & Meeting

Note :

1. SGA on Bekasi Plant will be in Condenser & on Sunter Plant will be in Spark Plug Assy
2. JIT Map Implementation Will be Controlled by PIC Area
3. Campaign of ESA is in term of reminder, flyer, poster, & also in competition

Need Deeply Evaluation and Close Coordination to Energy Saving Activity

Proposed DNIA ESA Policy

Content of Policy

Energy Saving Activity (ESA) is considered as one of important activities on the whole company activity by agreeing to have committed as follows :

1. Implement & develop energy management system suitably by regarding energy saving as one important matter to comply with laws & other related regulations.
2. Improve efficiency of energy usage continuously with appropriate technology and good guideline.
3. Set the annual energy saving action plan and target, and disseminate to all associates to get their right understanding and action
4. Regard that energy saving is the obligation & responsibility of all employees, both managerial level & operational level. All people have to cooperate to complete the countermeasure, monitor the result, & report to energy saving management committee
5. Support the essential resources to promote activity, e.g. human resources, budget, working time, training support, improvement suggestion activity, etc, to gain efficient improvement
6. Review and revise the policy, target, and action plan every year by management and energy management committee.





ESA Target in DNTH

Target of Energy Saving Activity in DNTH is based on Company Policy (Point 6) by its Top Management on Every Fiscal Year.

All in Cost / Unit Product

Target is in term of Cost / Unit Qty Prod

Frame Base Per Product / Area (current condition)

Ex : HVAC IDR 250k / Unit

Decide ESA Target Based on Company Policy

Ex : 20% down ; Target HVAC IDR 200k / Unit

Deciding Frame Base & Target for Every Line / Area

Partition into several line / area

Ex : Line HVAC 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Partite into Each Line / Area

Specify Frame base for Line / Area 1

Ex : CU1 IDR 100k / Unit

Decide ESA Target for Line / Area 1

Ex : Target CU1 IDR 80k / U

Specify Frame base for Line / Area 2

Ex : CU2 IDR 50k / Unit

Decide ESA Target for Line / Area 2

Ex : Target CU1 IDR 40k / Unit

Specify Frame base for Line / Area 3

Ex : CU3 IDR 75k / Unit

Decide ESA Target for Line / Area 3

Ex : CU1 IDR 60k / Unit

Specify Frame base for Line / Area n

Ex : CUn IDR 25k / Unit

Decide ESA Target for Line / Area n

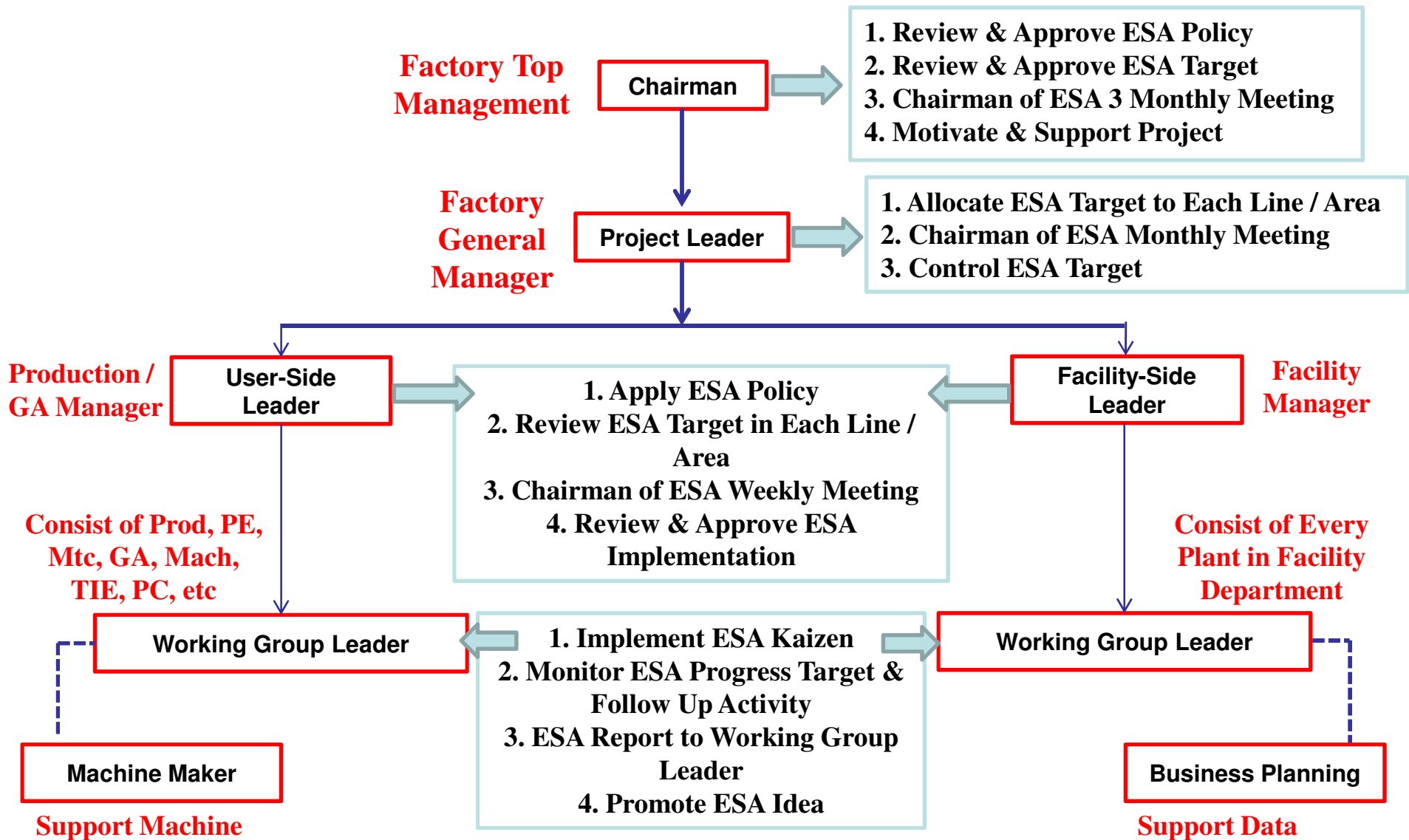
Ex : CUn IDR 20k / Unit

Energy Saving Activity is Divided into Each Area to Make Sure :

1. The Smallest Activity is also Established
2. Associates are able to take a part of ESA (Awareness Level Up)



Proposed DNIA ESA Organization Structure

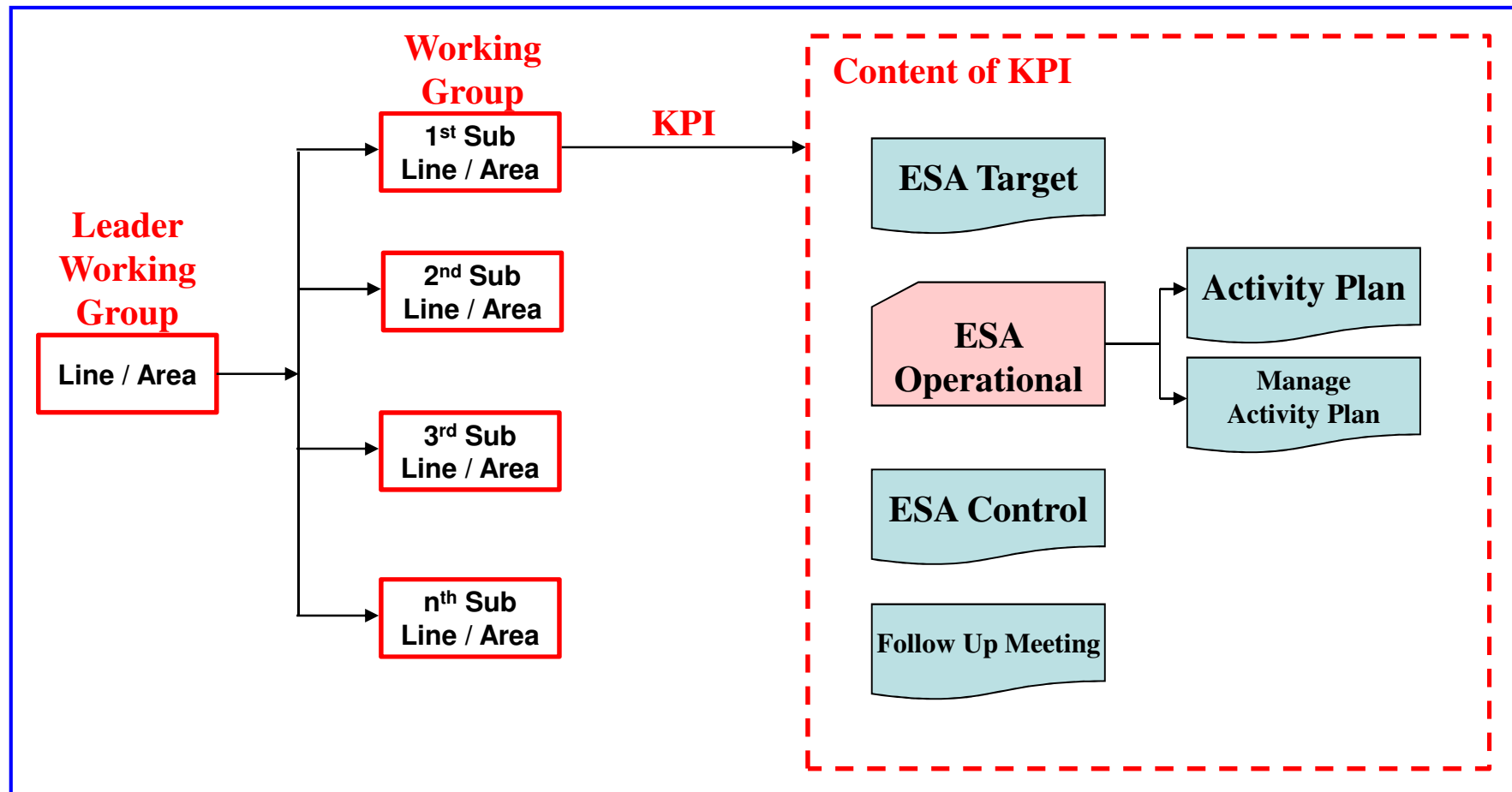


ESA Working Group Will Be the Role Key of Energy Saving Activity Success



Proposed DNIA ESA KPI

KPI of Energy Saving Activity Will be Responsible to Each Line / Area



Energy Saving Activity is divided into each line / area.
So, KPI will be in charge to each line / area



Proposed DNIA ESA Basic Main Activity

ESA Pillar Will be Foundation of All ESA Activity

3 ESA Pillar

Reduce
Operation Hour

NO	ITEM
1	No Overtime Day
2	No Holiday Overtime
3	No Energy Day

Eliminate Loss

NO	ITEM
1	Repair Leakage
2	Just in Time
3	Prevent Loss

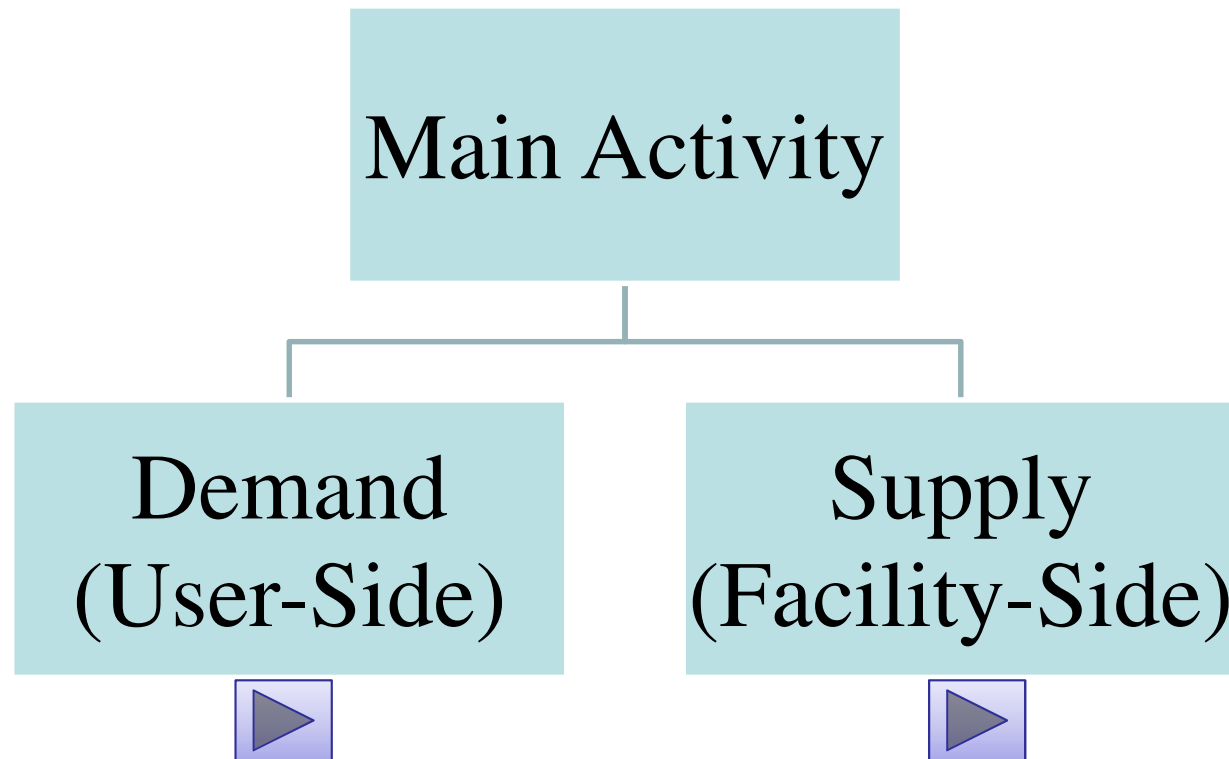
ESA
Improvement

NO	ITEM
1	Change Lamp to LED
2	Change LPG to NG
3	Optimize JetFan Opr.

This 3 Pillar Will Be Basic of All ESA Activity Plan

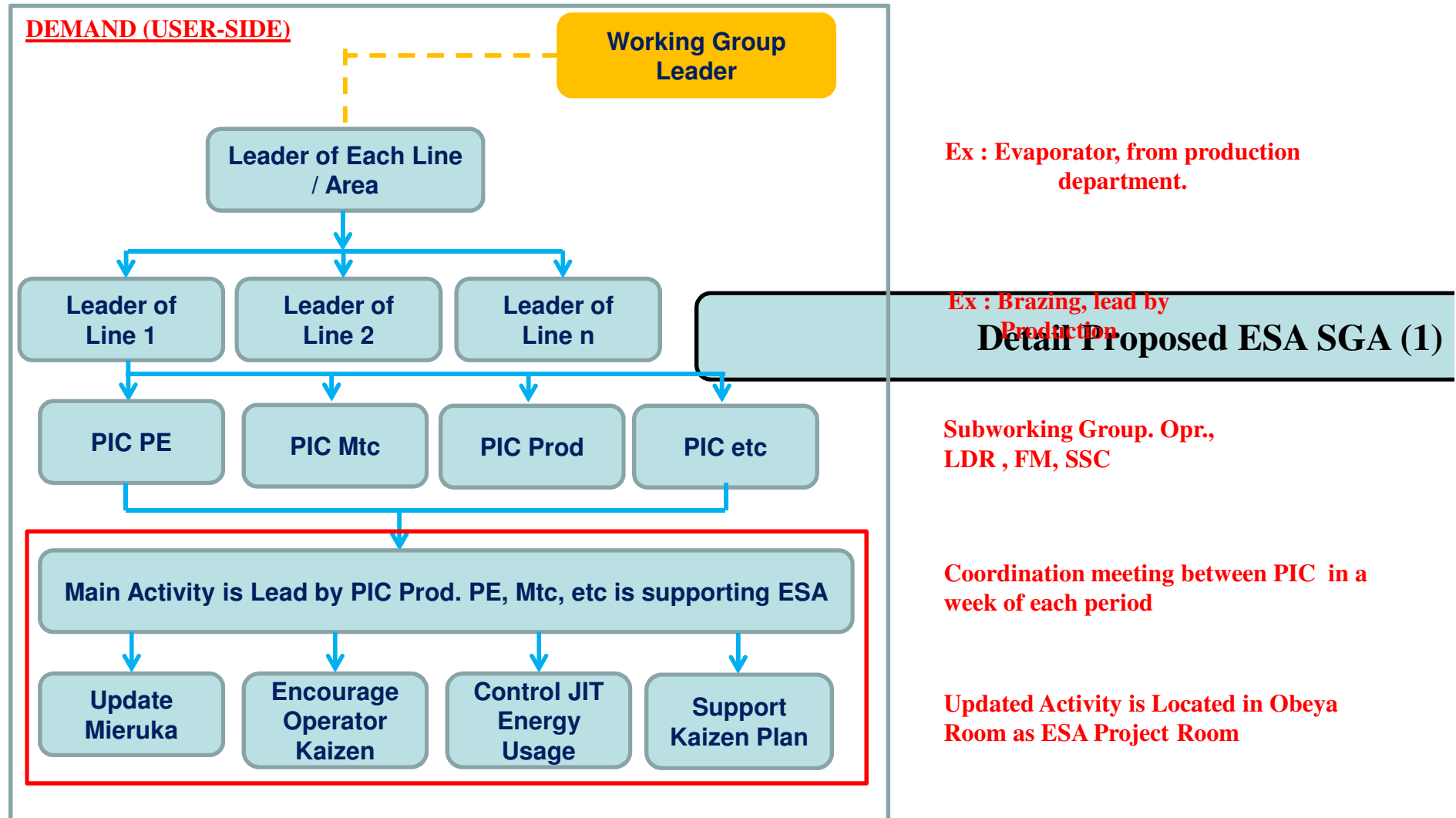
Proposed DNIA ESA Main Activity

Main Activity Will be Realized by Implement Energy Saving Activity Small Group Activity (ESA SGA).
As Stated in Organization, Activity is Divided into 2 Specified Activity : (1) Demand (User-side) & (2) Supply (Facility-side)



ESA SGA Will be Divided into Each Line / Area either in Production Area or Non-Production Area

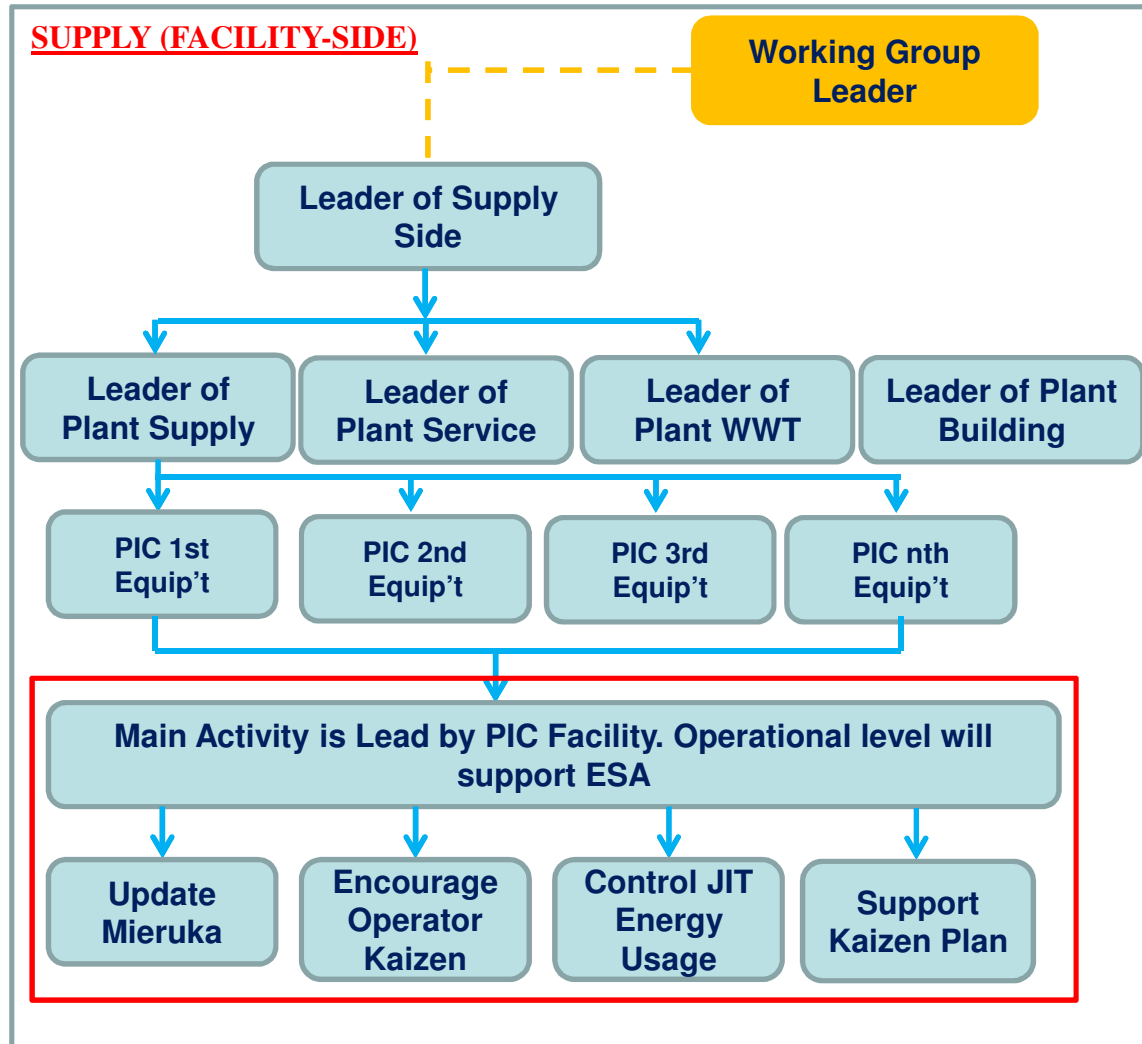
Proposed Detail DNIA ESA SGA (1)



Leader of User Side is
in charge of Production Dept. in Line Production & in charge of GA Dept. in Non-Line Production



Proposed Detail DNIA ESA SGA (2)



Ex : All Facility Equipment, from facility department.

**Subworking Group.
Opr., LDR , FM, SSC**

**Ex : Air Compressor System,
lead by Supply Plant**

**Coordination meeting between PIC in
a week of each period**

**Updated Activity is Located in Obeya
Room as ESA Project Room**

Leader of Facility Side is Facility Manager itself



Proposed DNIA ESA Specialist

ESA Specialist is Intended to Improve, Promote, & Approve ESA Kaizen in term of Project

Concept of ESA Specialist is not too different with KY Specialist. To Create New & Experienced ESA Specialist, There are Several Ways :

Training by DNJP / DENSO OGC

Benchmark to DNJP / DENSO OGC / LOCAL COMPANY

Follow Energy Management Audit (ISO 50001)

The ESA Specialist Will be Responsible to All ESA Activity on Whole Factory either in Management-Side or Operational-Side



Proposed DNIA ESA Socialization

ESA socialization objective is to encourage and give understanding to all associates that Energy Saving Activity (ESA) is one of important activity in a company by :

1. Flyer, Poster, Sticker (cooperation with GA)
2. SS, QCC, & Competition (cooperation with TQM)
3. Denso Ecovision Campaign (cooperation with SHE)
4. etc

Sample of ESA Poster



Sample of Hanged Reminder
in All Line on DNTH



ESA Campaign Activity will be in Facility, SHE, TQM, & GA Coordination

