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3. Nunn, M. E. and B. W. Ferne, "Design and Assessment of Long-Life Flexible Pavements", Transportation Research Circular No. 503, 2001.
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5. Asphalt Pavement Alliance, "Perpetual Pavement: Structured for the future", 2001.

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CASBEE :
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CASBEE(Comprehensive Assessment System for Building Environmental Efficiency)

Pre-design Assessment, DfE(Design for Environment)

CASBEE 가

CAS-

(Q: Building Environmental Quality & Performance) 가

(L: Building Environmental Loadings) 가

	Main users	Pre-design phase		Post-design phase		
		Planning stage	Design stage	Completion stage	Operation stage	Renovation design stage
0. The pre-design Tool Application for new building	Client, Planner, Designer	Assessment for the issues that are possible to study at planning stage, including site selection and programming	Assessment for the issues that are possible to study at first design stage	Tool-0		
1. The Q/E (Design for environment) Tool Application for new building	Client, Designer (After completion stage, the measure is assessed with cooperation of contractors.)		Assessment for the issues that are possible to study at design stage <ul style="list-style-type: none"> ☑Energy consumption ☑Resource circulation ☑Local environment ☑Indoor environment 	Assessment for the issues that are possible to study at detail design stage including design modifications through the completion	Tool-1	
2. The E/ae-labeling Tool Application for assessment including operational experience and existing building	Client, Designer, Commissioner (Client entrusts Designer with self assessment and opinion. Judgment by the local organization.)			Provisional assessment and labeling starting with the tool for environmental cam.	Assessment and labeling including operational experience of occupants, one-year use or more.	Tool-2
3. The Sustainable operation and Renovation Tool Application for operational improvement of existing building and renovation.	Client, Designer, (Client annually conducted with assessment.)			Tool-3	Assessment and labeling including operational experience of occupants, one year use or more.	Assessment on the timing of renovation considering the assessments of design stage and detail design stage for facilities

1.

CASBEE 가



1. 가 (Q) (L)

CASBEE

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가

BEE 「Q: 가
」 「L: 가
」 가

BEE (=Q/L)

가 . BEE CASBEE

CASBEE가 가 가
가

LR1:

LR2:

LR3:

가 가

(BEE : the Building

Environmental Efficiency)

가

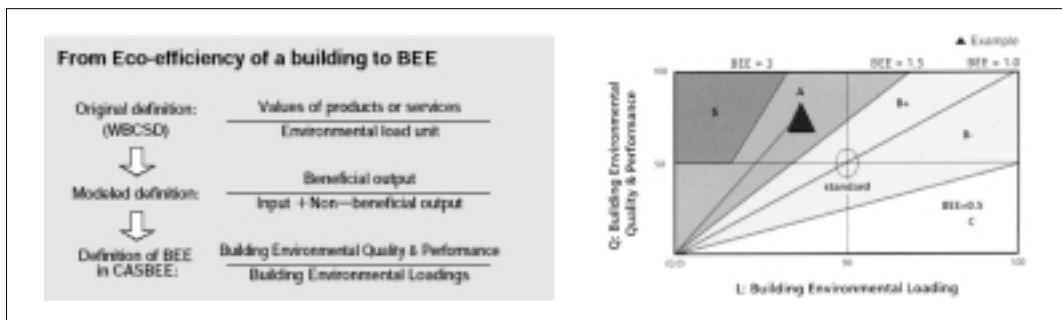
Q1: , Q2:

, Q3:

가 .
CASBEE 가
100 가
BEE 1.0 가

. BEE
C Class
(BEE=0.5 , Poor), B- Class
(0.5 BEE<1.0, Fairly Poor),
B+Class(1.0 BEE<1.5, Good), A
Class(1.5 BEE<3.0, Very Good),
S Class(BEE= 3.0 , Excellent)

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 2. Japan Sustainable Building Consortium (JSBC), CASBEE Manual 1, 2003
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2. CASBEE BEE 가 ()